

Exhibit E

1 UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA
2 CHARLESTON DIVISION
3

IN RE: ETHICON, INC., PELVIC REPAIR Master File No.
4 SYSTEM PRODUCTS LIABILITY LITIGATION 2:12-MD-02327
5 THIS DOCUMENT RELATES TO THE FOLLOWING
CASES IN THE WAVE 1 OF MDL 200:

6 -----

7
8 WENDY HAGANS,
9 Plaintiff,

10 v. Case No: 2:12-cv-00783
11 ETHICON, INC., ET AL.,
12 Defendant(s).

_____ /

13
14 DEPOSITION OF
BRIAN SCHWARTZ, M.D.

15
16 Taken in re: TVT-O Litigation
17

18 DATE TAKEN: March 25, 2016
TIME: 9:15 a.m.
19 PLACE: 5237 Summerlin Commons Blvd.
Fort Myers, Florida

20
21
22 Examination of the witness taken before:

23 Elizabeth M. Brooks, RPR, FPR

2650 Airport Road South

24 Naples, FL 34112
25

APPEARANCES

For the Plaintiff(s):

P. LEIGH O'DELL, ESQ.

Beasley, Allen, Crow,

Methvin, Portis & Miles, PC

218 Commerce Street

P.O. Box 4160

Montgomery, AL 36104

leigh.odell@beasleyallen.com

For the Defendant(s):

BARRY J. KOOPMANN, ESQ.

Bowman and Brooke, LLP

150 S. 5th Street

Suite 3000

Minneapolis, MN 55402

barry.koopmann@bowmanandbrooke.com

* * * * *

1	INDEX	
2	WITNESS	PAGE
3	BRIAN SCHWARTZ, M.D.	
4	Direct Examination by Ms. O'Dell	7
5	Cross Examination by Mr. Koopmann	92
6	Redirect Examination by Ms. O'Dell	127
7	Recross Examination by Mr. Koopmann	133
8	Further Redirect Examination by Ms. O'Dell	134
9	Further Recross Examination by Mr. Koopmann	135
10	Further Redirect Examination by Ms. O'Dell	135
11	Further Recross Examination by Mr. Koopmann	136

12 * * * * *

13

14

15

16

17

18

19

20

21

22

23

24

25

Brian Schwartz, M.D.

1	EXHIBITS		
2	DESCRIPTION		PAGE
3	Exhibit 1	Notice of Deposition	7
4	Exhibit 2	Report for Gynecare TVT-O	8
5	Exhibit 3	Curriculum Vitae of Brian Schwartz, M.D.	9
6			
7	Exhibit 4	Brian Schwartz, Reliance List in Addition to Materials Referenced In Report, MDL Wave 1	9
8			
9	Exhibit 5	Binder Labeled TVT-O Company Documents	12
10			
11	Exhibit 6	Letter Dated 9/1/15 To Schwartz from Koopmann and Attachments	16
12	Exhibit 7	Article Entitled Sling Surgery for Stress Urinary Incontinence	31
13			
14	Exhibit 8	The Safety and Efficacy of the Inside-Out Trans-Obturator TVT by Groutz, et al	49
15			
16	Exhibit 10	AUGS Paper Entitled Dyspareunia Associated with Paraurethral Banding In the Transobturator Sling	56
17			
18	Exhibit 12	Article Entitled Randomized Trial of Tension-free Vaginal Tape and Tension-free Vaginal Tape-obturator for Urodynami Stree Incontinence In Women	58
19			
20	Exhibit 13	Article Entitled Retropubic Tension-free Vaginal Tape and Inside-out Transobturator Tape	62
21			
22	Exhibit 14	Document entitled Ethicon Expert Meeting, Meshes for Pelvic Floor Repair, 1/2/06	71
23			
24			
25			

1			
2		EXHIBITS	
3		(continued)	
4	DESCRIPTION		PAGE
5	Exhibit 14B	Document entitled IR Microscopy of Explanted Prolene, 9/30/87	82
6	Exhibit 15	IFU for Gynecare TVT Opturator System	85
7	Exhibit 17	Article entitled midurethral Sling Operations for Stress Urinary Incontinence in Women (Review) by Ford, AA	103
8			
9	Exhibit 18	Article entitled Primary and Repeat Surgical Treatment for Female Pelvic Organ Prolapse and Incontinence in Parous Women in the UK, by Mohamed Abdel-fattah, et al	104
10			
11	Exhibit 19	Article entitled Sling Revision/Removal for Mesh Erosion and Urinary Retention, by Michele Jonsson Funk, et al	104
12			
13	Exhibit 20	AUA article entitled Guideline for the Surgical Management of Female Stress Urinary Incontinence: 2009 Update	105
14	Exhibit 21	Article entitled Medium-term and Long-term Outcomes Following Placement of Midurethral Slings for Stress Urinary Incontinence by Giovanni A. Tommaselli, et al	107
15			
16	Exhibit 22	Article entitled Indications and Risk Factors for Midurethral Sling Revision	109
17			
18	Exhibit 23	Article entitled Removal or Revision of Vaginal Mesh Used for the Treatment of Stress Urinary Incontinence by Blayne	111
19			
20			
21			
22			
23			
24			
25			

1	EXHIBITS		
	(continued)		
2	DESCRIPTION		PAGE
3	Exhibit 24	Binder labeled Dr. Brian	113
		Schwartz, TVT-O General Report	
4			
	Exhibit 25	Binder entitled TVT-O	134
5		Literature and Document Starter	
		Set	
6			
	Exhibit 26	Binder labeled TVT Literature	134
7		and Document Set	
8	Exhibit 27	Document Entitled Device	135
		Labeling Guidance #G91-1	

9
10
11 (The following exhibits were not marked: 9,
12 11, 16)

13
14 * * * * *

Brian Schwartz, M.D.

1 WHEREUPON,

2 BRIAN SCHWARTZ, M.D.,

3 having been duly sworn to tell the truth, testified upon
4 his oath as follows:

5 DIRECT EXAMINATION

6 BY MS. O'DELL:

7 Q Good morning, Dr. Schwartz.

8 A Good morning.

9 Q My name is Leigh O'Dell. We met a few minutes
10 ago off the record. I'm here to ask you some questions
11 about your TVT-O general report for the Ethicon Wave
12 cases. And so you provided a number of notebooks to me
13 today, and I'm assuming that is in response to the
14 notice of deposition.

15 Let me show it to you. Exhibit 1.

16 (Exhibit 1 marked for identification.)

17 BY MS. O'DELL:

18 Q Have you seen that document before?

19 A Yes.

20 Q And if you'll turn, Dr. Schwartz, to Exhibit A
21 of the notice.

22 A Okay.

23 Q Is there anything in your possession that
24 relates to your work in this case that you have not
25 brought with you to the deposition?

1 A No.

2 Q Okay. And is there anything that you have in
3 your possession that your lawyer has instructed you not
4 to bring?

5 A No.

6 Q You brought a number of notebooks, and let me
7 just ask for a general understanding of how you prepared
8 your opinions in this case.

9 Did you primarily review printed materials or
10 did you review materials electronically as well?

11 A I've reviewed both.

12 Q In other words, did you review the materials
13 electronically and then Ethicon counsel provided you
14 with hard copies, or were you provided hard copies
15 initially and you reviewed them upon receipt?

16 A Both. Actually, both ways. Some I received
17 hard copies and reviewed them, and some I received
18 electronically and reviewed them and then got the hard
19 copies.

20 Q Let me do a few more housekeeping matters and
21 I'll return to that.

22 Let me show you what I've marked as Exhibit 2
23 and ask you to identify that for the record.

24 (Exhibit 2 marked for identification.)

25 THE WITNESS: This appears to be my general

1 report for TVT-O.

2 (Exhibit 3 marked for identification.)

3 BY MS. O'DELL:

4 Q And would you identify Exhibit 3, please?

5 A This is my up-to-date CV.

6 Q I'm handing you Exhibit 4, and please identify
7 that for the record.

8 (Exhibit 4 marked for identification.)

9 THE WITNESS: I believe this is the reliance
10 list that was provided to me.

11 BY MS. O'DELL:

12 Q Did you review all of the materials that are
13 listed on Exhibit 4?

14 A I have reviewed most, at least in a cursory
15 fashion.

16 Q If you'll turn to Page 2, you'll see that that
17 starts a very lengthy list of medical literature.

18 Who identified these publications --

19 A Page 2?

20 Q -- for you to consider in rendering your
21 opinion?

22 A My attorney, Mr. Koopmann.

23 Q Are there any articles that you identified
24 independently of Ethicon counsel and asked that they be
25 added to this list?

1 A I did forward some articles to Mr. Koopmann.

2 I don't know if they have been added to the list or not.

3 Q Do you recall either the name or the first
4 author of the articles?

5 A I do not.

6 Q What product did they relate to?

7 A They related to generalized female
8 incontinence surgery.

9 Q Were they recently published articles or
10 were --

11 A Recently published articles.

12 Q Okay. And in regard to their content, did
13 they address a specific type of product?

14 A No, they did not.

15 Q And what were -- what was the subject of the
16 articles?

17 A The effectiveness of various female
18 incontinence surgeries.

19 Q Did they include efficacy rates of the TVT-O?

20 A No.

21 Q Did any of those articles address the efficacy
22 of the TVT-Secur or another mini-sling?

23 A No.

24 Q Approximately how many articles did you
25 forward to your attorney?

1 A Two or three.

2 Q Did you perform any PubMed searches or any
3 other type of searches for literature?

4 A I did not do any generalized searches, no.

5 Q If you'll turn to what appears to be about the
6 last five or six pages of your reliance list, Exhibit 4,
7 you'll see a list of production materials. I think you
8 may have gone too far in the exhibit. The title at the
9 top is Production Materials.

10 A Yes.

11 Q Are those materials or does this begin a list
12 of materials that you were provided by Ethicon counsel
13 of internal documents?

14 A Not all.

15 Q Did you add any of those items to your list or
16 were they all added by Ethicon counsel?

17 A They were all added by Ethicon counsel.

18 Q Okay. Are those materials printed in one of
19 these binders?

20 A Some of those materials will be in the
21 binders. Should be labeled Company Documents.

22 Q I see this. I think the index is entitled TVT
23 Company Documents.

24 A Yes.

25 Q I'm going to mark the notebook as Exhibit 5.

1 MR. KOOPMANN: Just for the record, the index
2 is labeled TVT-O Company Documents.

3 (Exhibit 5 marked for identification.)

4 BY MS. O'DELL:

5 Q All right. I'm going to mark the binder as
6 Exhibit 5, and it is various TVT-O company documents.

7 Who prepared this notebook?

8 A Ethicon counsel.

9 Q Did you review these materials?

10 A Yes, I did.

11 Q Did you review any company documents, with the
12 exception of the IFUs, which I see here in another
13 binder, for the TVT-O? Did you review any company
14 documents electronically?

15 A Not that I recall.

16 Q So would it be fair to say that outside of the
17 documents that are marked in Exhibit 5 and the IFUs that
18 are in another binder, but I won't mark, to take pity on
19 our court reporter since we all have copies of those,
20 but other than those documents within the binders, is
21 that the whole universe of company documents that you
22 relied on in rendering your opinions in relation to the
23 TVT-O?

24 A Yes.

25 Q And so, to the degree there are other company

1 documents that are listed in the Materials Reviewed list
2 marked as Exhibit 4, those are not documents that you've
3 relied on in rendering your opinions, correct?

4 MR. KOOPMANN: Objection. Form.

5 Go ahead.

6 THE WITNESS: Correct.

7 BY MS. O'DELL:

8 Q Who hired you to be involved in the Ethicon
9 litigation?

10 A I was contacted towards the end of last year
11 by Mr. Koopmann.

12 Q And did you know Mr. Koopmann prior to him
13 contacting you?

14 A No.

15 Q How did he identify you as a potential expert?

16 MR. KOOPMANN: Objection. Foundation.

17 THE WITNESS: Apparently my name was in a list
18 of names that was forwarded to him of TVT users.

19 BY MS. O'DELL:

20 Q You mean TVT-O users?

21 A Yes. The Ethicon product users.

22 Q Okay. And so is it your understanding that it
23 was an Ethicon employee that forwarded a list to Ethicon
24 counsel of TVT-O users?

25 MR. KOOPMANN: Objection. Form.

1 THE WITNESS: I honestly do not have an answer
2 to that.

3 BY MS. O'DELL:

4 Q Prior to your involvement in the Ethicon
5 transvaginal mesh litigation, have you been an expert
6 witness in other cases?

7 A Never.

8 Q And would that be true of product liability
9 cases as well as med mal cases, or any other type cases?

10 A Correct.

11 Q Have you done any expert consulting for
12 litigation, other than providing testimony?

13 A Never.

14 Q Have you been deposed before?

15 A Yes.

16 Q How many times, if you recall?

17 A For any reason?

18 Q For any purpose, yes.

19 A Half a dozen.

20 Q And in those particular circumstances, were
21 those involved -- involving your professional work as a
22 physician?

23 A Yes. They were involving -- most of them. I
24 think one was for an auto accident my wife had. The
25 rest were for patients who were involved in some type of

1 litigation. And there were some that just involved me.

2 Q Okay. And were those that involved you
3 directly cases involving medical malpractice claims?

4 A Yes.

5 Q And how many cases involved medical
6 malpractice?

7 A Three.

8 Q Okay. And if you'll start, just go through
9 the list of three, if you don't mind, sir.

10 What were the -- very short summary of the
11 allegations and then what was the outcome of the case.

12 A The first was when I was a surgery intern in
13 1990. The allegation was misdiagnosis of appendicitis.
14 That was settled by the hospital.

15 The second was in the late nineties. I was
16 covering for one of my partners, provided a patient with
17 some antianxiety medication. The next day he was found
18 in respiratory arrest, and that's number two, and that
19 case was settled.

20 And the third is a high-risk patient of mine
21 who, while in the hospital postoperatively, appeared to
22 have cardiac arrest, and that was settled as well.

23 Q I'm going to mark a group of papers that
24 Ethicon counsel has provided to me that appear to be
25 your engagement letter in these cases, as well as

1 invoices.

2 (Exhibit 6 marked for identification.)

3 BY MS. O'DELL:

4 Q Let me just show you this and see if I've
5 identified those correctly.

6 A Yes.

7 Q Okay. And since we only have one copy, if we
8 can share. I'll ask you a few questions. If you need
9 to see these, please just ask me.

10 A Sure.

11 Q It appears based on Page 1 of Exhibit 6 that
12 you were engaged to serve as an expert in these cases on
13 September the 1st?

14 A Yes.

15 Q And the first bill or invoice documenting work
16 that I see has an entry for 12/4, or December 4.

17 Did you perform any work or do any preparation
18 of your opinions between September 1st and December the
19 4th?

20 A Not that I recall.

21 Q And I have, you know, three general bills, one
22 for December, one for January, one for February, that
23 have all been made a part of this exhibit. And there is
24 no delineation of whether the work was for a general
25 report you prepared, individual case report. So let me

1 just ask you.

2 Are all of these invoices related to your
3 TVT-O work?

4 A They are all related to any of the Ethicon
5 work, so that would include the TVT-O, the TVT-Secur and
6 the case work.

7 Q Okay. And you are serving as a case-specific
8 expert in the Hagans case, and I'm aware of one other
9 case, that I cannot recall the name of the case.

10 Are there any other cases besides those two
11 that you are serving as a case-specific expert?

12 A No.

13 Q And, totaling these bills, Dr. Schwartz, it
14 appears that you have spent approximately 67.5 hours, if
15 my math is correct, on your work in these matters up
16 until February the 28th.

17 What percentage of those hours, approximately,
18 would be spent on the TVT-O general opinions?

19 A 70 percent.

20 Q Okay.

21 A As an estimate.

22 Q Fair enough.

23 And then how many hours, approximately, or
24 what percentage of the hours would have been spent in
25 preparing your TVT-Secur report?

1 A The other 30.

2 Q Okay. And that is 100 percent.

3 So what portion of your time was devoted to
4 rendering your opinions in the case, the case specific?

5 A About -- I would estimate about 30 percent of
6 each, so 30 percent of the 70 percent for the TVT-O, and
7 30 percent of the TVT-Secur for the case specific.

8 Q Okay. How many hours have you spent since
9 February 28th on your work in relation to the overall
10 Ethicon litigation?

11 A I would estimate around between 25 and 30
12 additional hours.

13 Q And what did you do during those 30 hours?

14 A I'm going to need you to be more specific.

15 Q Okay. Well, you wrote your report and you
16 ostensibly -- let me start again.

17 From December to February the 28th, I'm
18 assuming, you reviewed materials, you met with your
19 lawyer, you wrote reports, and so that's up until
20 February the 28th.

21 Since that time have you written any
22 supplemental reports?

23 A No.

24 Q Have you reviewed new materials? In other
25 words, how have you -- what did you do in the 25 to 30

1 hours that you've spent since February 28th? I'm just
2 asking you, what kind of work did you do?

3 A Re-reviewing the materials.

4 Q How many hours did you spend -- let me back
5 up.

6 Did you meet with counsel prior to your
7 deposition?

8 A Yes.

9 Q When?

10 A This morning and last evening.

11 Q How many hours did you spend meeting with
12 Mr. Koopmann?

13 A Three and a half.

14 Q Did you have any telephone conferences?

15 A We did.

16 Q And when approximately did that conference
17 occur?

18 A Last evening.

19 Q Okay. So you talked to him by phone
20 yesterday, or did you meet with him as well?

21 A We had a telephone conference with a third
22 party by phone.

23 Q Okay. Who was the third party?

24 A I don't -- Helen Catherine.

25 Q Okay.

1 A That's all I know.

2 Q That's enough. I know of a Helen Catherine.

3 And I presume you talked about the Hagans
4 case?

5 MR. KOOPMANN: Objection. I mean, you can't
6 inquire into the communications between counsel and
7 the witness unless it relates to information we
8 provided him or compensation.

9 MS. O'DELL: I can ask. You are free to
10 object.

11 MR. KOOPMANN: Objection.

12 And I'm going to instruct you not to answer,
13 regarding the substance of our conversation, that
14 question.

15 BY MS. O'DELL:

16 Q Let me ask this question.

17 Dr. Schwartz, in rendering your opinions in
18 regard to Ethicon's TVT-O product, were you asked to
19 make any assumptions in reaching your opinions? In
20 other words, were you given facts or data to assume and
21 base your opinions on those?

22 A If I understand the question correctly, I was
23 asked to make my own assumptions based on the facts and
24 data that were provided.

25 Q Okay. Let me ask you some questions about

1 your clinical practice.

2 What percentage of your current patient
3 population is female?

4 A 30 percent.

5 Q And of those, the 30 percent, how many of
6 those patients approximately would you be treating for
7 stress urinary incontinence?

8 A My estimate would be 20 percent of that 30
9 percent.

10 Q I read in your report where you have performed
11 approximately 600 sling procedures of some type or
12 another?

13 A At least.

14 Q In your current practice how often on a
15 monthly basis would you perform surgery for the
16 treatment of SUI?

17 A Currently?

18 Q Yes.

19 A How many surgeries do I perform?

20 Q No. I asked you how many surgeries you would
21 perform in females for the treatment of SUI on a monthly
22 basis.

23 A Six. There has been a significant decline
24 over the last couple of years.

25 Q In what?

1 A In my population of incontinence patients.
2 One of the reasons had to do with our -- my practice
3 voting to limit our practice to one hospital.
4 Unfortunately that hospital does not include
5 gynecologists, so referral patterns changed
6 dramatically.

7 And, secondly, with all of the incontinence
8 litigation, there has just been a dramatic change.

9 Q Are you currently using transvaginal mesh in
10 the treatment of stress urinary incontinence?

11 A I am.

12 Q And what product are you using presently?

13 A I utilize the TVT-O and the TVT-Abbrevio.

14 Q You write in your report -- I'm looking on
15 Page 2. Just a quick question.

16 You state that you performed Burch procedures
17 in your residency?

18 A And in practice.

19 Q Do you presently perform the Burch procedure?

20 A I would perform the Burch procedure if there
21 was an appropriate situation, but I have not performed a
22 Burch procedure in several years.

23 Q Are you trained to perform Burch procedures
24 laparoscopically? And it's not a trick question. I'm
25 just asking, when you were trained, were you trained to

1 do them through an open abdominal incision?

2 A In my residency we did not. But as a
3 practicing urologist I did help assist my partners with
4 those procedures. So yes, I did perform them as a
5 practicing urologist.

6 Q And those procedures were performed with an
7 abdominal incision, correct?

8 A The laparoscopic Burch procedure? Yes.
9 Through small abdominal incisions.

10 Q I think I misunderstood what you are saying.
11 You are saying you had performed laparoscopic
12 Burches with your partners?

13 A Correct.

14 Q But you have not -- you didn't go through
15 resident training using the laparoscopic approach to a
16 Burch?

17 A Correct.

18 Q You state you have performed 600 sling
19 procedures and several hundred TVT-Os, I've read in your
20 TVT-O general report. In your TVT-Secur general report
21 it says several hundred.

22 Would you give me a very big sort of estimate,
23 of those 600 procedures, what percentage would be TVT-O?

24 A My comments in terms of the number were 300
25 TVT-O, 300 TVT-Secur, and I did not include the other

1 types of slings that I have done in my career.

2 Pubovaginal slings, Monarc sling.

3 Q Right. You write on Page 2, "These include
4 retropubic TVT, transobturator TVT-O, transobturator
5 slings using the out-to-in method" -- which I'm assuming
6 is the Monarc -- "the TVT-Abbrevio and mini-slings,
7 including the TVT-Secur." I'm reading from Page 2 of
8 Exhibit 2.

9 "I have performed over 600 of those
10 procedures."

11 And so, of all of those types of sling
12 procedures, is the total that you performed 600?

13 A That is the minimum, yes. I have performed
14 more than 600.

15 Q Okay.

16 A I just rounded down to the closest number.

17 Q And if I understand your testimony, you've
18 performed 300 TVT-O, 300 TVT-Securs, so that's 600?

19 A Yes.

20 Q Approximately how many TVT procedures have you
21 performed?

22 A Ten.

23 Q And how many Abbrevio?

24 A Thirty.

25 Q How many Monarc?

1 A I'm relying on more than 15 years ago, so I'm
2 giving you my best estimates.

3 I would say, for Monarc, 30.

4 Q If you'll turn to Page 6 of your report,
5 Dr. Schwartz, middle of the page, you write, "All
6 continence surgeries have similar risk, including
7 bleeding, infection, persistent or recurrent SUI,
8 voiding dysfunction, including overactive bladder
9 symptoms and urinary retention, chronic pain,
10 dyspareunia, injury to the vagina, urethra, bladder," et
11 cetera.

12 What's your basis for that statement?

13 A A combination of my experience, texts, and the
14 medical literature.

15 Q Do you keep a log of the surgical procedures
16 that you perform?

17 A I used to.

18 Q When did you stop?

19 A Probably ten years ago.

20 Q So you presently do not keep a log of the
21 patients and the type of procedures that you perform?

22 A I do not keep a log.

23 Q Have you performed a surgical revision or
24 excision of an SUI sling?

25 A Yes.

1 Q Approximately how many?

2 A Thirty.

3 Q Have you revised a TVT-O sling?

4 MR. KOOPMANN: Objection. Form.

5 MS. O'DELL: What's the objection?

6 MR. KOOPMANN: Just, I think it's vague,

7 "revised." That can mean a lot of things.

8 MS. O'DELL: I'm happy to restate that. Let

9 me be more clear.

10 BY MS. O'DELL:

11 Q Have you done a surgical procedure to remove

12 mesh from a TVT-O sling?

13 A Of those, that estimated group of 30, I cannot

14 recall which -- how many of each different types of

15 slings, because a majority of those patients were not

16 implanted by myself, but I am fairly confident that

17 included in that group is a TVT-O patient.

18 Q Have you removed mesh from a patient in whom

19 you've implanted the sling?

20 A I have.

21 Q And how many times, approximately?

22 A My estimate would be ten.

23 Q In any of those cases, did they involve a

24 transobturator device?

25 A I cannot recall. I would assume, because most

1 of my sling procedures utilized one of the TV types of
2 devices, that that would be included in that group.

3 Q Did you or have you performed a removal
4 procedure in a patient for the treatment of pain?

5 A No.

6 Q Have you removed mesh to address dyspareunia?

7 A No.

8 Q Have you removed mesh from patients for the
9 treatment of retention?

10 A Yes.

11 Q Okay. And of the 30 that you've removed,
12 Dr. Schwartz, what -- if you could give me a general
13 idea of whether the indication for removal was
14 retention, erosion or some other indication.

15 A The majority were for erosion.

16 Q In any of those instances where you removed
17 mesh, have you reviewed the explanted material
18 microscopically?

19 A No.

20 Q Have you asked a pathologist to review the
21 material that you've removed microscopically?

22 A I have sent the material to the pathologist
23 for them to assess.

24 Q Okay. And are you aware of any pathology that
25 has been examined microscopically of those explants that

1 you've performed?

2 A I am not aware of any.

3 Q Would it be the general practice at your
4 hospital only to review explanted mesh under gross
5 examination?

6 A Yes.

7 Q And so you've not requested that they do
8 anything other than the normal procedure at your
9 hospital, correct?

10 A I have done nothing more than request that
11 they assess it like any other pathology specimen I would
12 send.

13 MS. O'DELL: May we go off the record?

14 (Off the record at 9:59 a.m.)

15 (A recess was taken.)

16 (Back on the record at 10:02 a.m.)

17 BY MS. O'DELL:

18 Q Dr. Schwartz, have you had any patients who
19 have reported new-onset dyspareunia after the
20 implantation of the TVT-O?

21 A Not of patients that I've implanted.

22 Q Have you treated patients who have developed
23 dyspareunia after the TVT-O?

24 A I recall one or two patients that did have
25 that as part of their grouping of problems after a sling

1 procedure.

2 Q And how did you treat those patients? What
3 was your -- what's your typical method for treating a
4 patient who develops dyspareunia after a transobturator
5 sling?

6 A It depends on the particular patient and what
7 the clinical scenario is, obviously making sure there is
8 nothing I feel is surgically correctable. And, if they
9 are postmenopausal patients, which many of mine are, if
10 they are not on some form of estrogen, I will prescribe
11 that. And I'll typically work with a gynecologist to
12 see if they have any additional treatment suggestions.

13 Q Have you performed any surgeries on patients
14 who developed dyspareunia after the TVT-O, such as
15 cutting the sling or removing the mesh, in order to
16 address their dyspareunia?

17 A I have not had to operate on any patients for
18 the complaint of dyspareunia.

19 Q Now, you acknowledge, I'm sure, that pain and
20 dyspareunia is reported in the literature as a
21 complication of the TVT-O?

22 A At a very low occurrence rate, along with a
23 whole host of other complications.

24 Q And what complications are you referring to
25 when you say a host of complications?

1 A That are stated, actually, in the paragraph
2 that you read. I think that's a really good example.

3 Q And this was the paragraph that I read on
4 Page, I believe, 6 of your report?

5 A Yes.

6 Q And it's your opinion that those are, the
7 risks that are presented on Page 6, are similar in
8 midurethral slings, whether they are TVT, TVT-O or
9 mini-sling, true?

10 MR. KOOPMANN: Object to form.

11 THE WITNESS: To different degrees.

12 BY MS. O'DELL:

13 Q Would you agree with me, Dr. Schwartz, that
14 groin pain is reported in the literature as a
15 complication of TVT-O slings?

16 A Groin pain is reported as a complication of
17 every type of surgical treatment for stress urinary
18 incontinence, yes.

19 Q Would you agree with me that groin pain is
20 reported at a more than fivefold increase in TVT-O
21 slings versus other types of incontinence procedures?

22 A I think you would have to be more specific as
23 to "other types of incontinence procedures."

24 Q So is it your opinion, Dr. Schwartz, that
25 groin pain, leg pain and dyspareunia does not occur in

1 greater frequency in patients who have a TVT-O or
2 transobturator sling as compared to other surgical
3 treatments for SUI?

4 A That's a complicated question. Could you
5 repeat it?

6 MS. O'DELL: I'm going to ask Lynn if she
7 could read it.

8 (The record was read back.)

9 MR. KOOPMANN: Object to form.

10 THE WITNESS: The occurrence of transient
11 groin and hip pain is reportedly increased in
12 patients who have had a transobturator procedure.

13 BY MS. O'DELL:

14 Q What do you mean by "transient"?

15 A Typically resolving within a matter of days to
16 weeks.

17 Q And what do you rely on in making that
18 statement?

19 A There is a -- there are many high-quality
20 published studies that have shown that to be the case.

21 Q Let me show you what I'm marking as Exhibit 7.

22 (Exhibit 7 marked for identification.)

23 BY MS. O'DELL:

24 Q This is an article you are familiar with. The
25 first author named is Schimpf, S-C-H-I-M-P-F, published

1 in the American Journal of Obstetrics and Gynecology in
2 2014.

3 If you'll turn, Doctor, to Page -- it's 71.e9.

4 Do you see that, Table 3?

5 A Yes.

6 Q And in the review that was performed of all of
7 the literature regarding transobturator, retropubic,
8 Burch, mini-sling and pubovaginal slings, this study
9 group created an analysis. And if you'll look under
10 Groin Pain, isn't it true that in obturator slings groin
11 pain occurred in 6.5 percent of the patients, and in
12 every other treatment modality it was 1.5 percent or
13 less, true?

14 A True.

15 Q Okay. And if you will look in terms of leg
16 pain, leg pain was reported in 16 percent of patients
17 who received an obturator sling and reported in 1.6
18 percent or less in retropubic or mini-sling, true?

19 MR. KOOPMANN: Object to form.

20 BY MS. O'DELL:

21 Q True?

22 A The findings of groin pain and leg pain are
23 increased, but, once again, the majority, if not all of
24 those instances, I believe are reported to be transient.

25 Q And what do you base -- and you made that

1 statement -- I've spent a good amount of time with this
2 Schimpf article.

3 What did you rely on to reach the conclusion
4 that those reported adverse events are transient?

5 A I'm relying on a host of other studies that
6 have specifically commented on the occurrence of leg and
7 groin pain, as well as outlining the specific amounts of
8 time to resolution and the treatments necessary to
9 address the pain.

10 Q And there is nothing in this Schimpf
11 systematic review that refers to these complications of
12 groin pain and leg pain as transient, true?

13 A There is -- there is no description. There is
14 no specific description beyond what we're seeing here in
15 the chart, yes.

16 Q So you've made an assumption that these
17 outcomes were transient, but there is no data in this
18 publication to support that, true?

19 A I'm relying on multiple other studies that
20 have specifically addressed that breakdown. This study
21 has not done that.

22 Q Is it your opinion that one of the benefits of
23 the TVT-O is the lower percentage of patients who have
24 to return to the operating room following a first
25 procedure?

1 A Benefits compared to what in particular?

2 Q As compared to another SUI surgical procedure.

3 A Can you restate the question for me?

4 Q Happy to.

5 As you have evaluated the safety and efficacy
6 of the TVT-O, did you consider the reoperation rate?

7 A With any procedure I do, I would consider the
8 potential reoperation rate.

9 Q In your opinion, is the reoperation of the
10 TVT-O, the reoperation rate of the TVT-O, one of the
11 characteristics that make it, in your mind, an
12 advantageous procedure?

13 A The reoperation rate for the sling procedures
14 that I do are all exceptionally low, so I would not rely
15 on that particular factor to make a decision on what
16 procedure to use.

17 Q Are you basing that statement on your personal
18 experience?

19 A I'm basing that statement on a combination of
20 my personal experience and the complication rates that
21 are quoted in the literature.

22 Q Would you agree with me, Dr. Schwartz, that
23 Burch procedures, either open or laparoscopic, have a
24 lower rate of return to the operating room for
25 retention, erosion, overactive bladder and groin pain?

1 MR. KOOPMANN: Object to the form.

2 THE WITNESS: The Burch procedure, in my
3 experience, has far more potential problems,
4 potential problems than midurethral sling surgery.

5 In terms of your question, which is, Do
6 patients have a higher rate of returning to the
7 operating room for Burch procedure, I don't believe
8 they do.

9 BY MS. O'DELL:

10 Q Okay. If you'll turn to ell of the Schimpf
11 publication that we've marked as Exhibit 7 and look at
12 Table 4.

13 Following the schematic review that was
14 performed by the authors, they concluded that Burch
15 procedures may result in lower rates of return to the
16 operating room for retention, erosion, overactive
17 bladder symptoms and groin pain.

18 Do you see that?

19 A I do.

20 Q Do you disagree with that statement?

21 A I comment that they are not discussing the
22 overall, all complications of the Burch procedures, just
23 the ones that are listed there.

24 Q What is your basis for -- well, let me just
25 ask this.

1 Are you saying that statement is incorrect?

2 A No, I'm not. I agree with that statement but
3 that statement is, is including return to the operating
4 room for those four distinct issues.

5 Q And reoperation rate and the return to the OR
6 is a significant adverse event, true?

7 A True.

8 Q I mean, the whole idea is, you have the sling
9 implanted and you are not going to have to ever have to
10 go back to the operating room, be placed under general
11 anesthesia and undergo another procedure with all of the
12 inherent risk of a surgical procedure, true?

13 A Surgery is a combination of science, skill and
14 the art of medicine. And, with any surgical procedure,
15 as you are probably aware, there are going to be
16 instances where return to the operating room is
17 warranted.

18 My job as a continence surgeon is to provide
19 patients with information regarding complications and
20 how those complications are addressed.

21 The rate of erosion --

22 Q Sir, I want to let you finish, but that's
23 really not my question. So let me just refocus the
24 discussion.

25 A Okay.

1 Q If a procedure -- let me ask you this.

2 What is an unacceptable rate of reoperation
3 after a procedure before you would think that procedure
4 is not safe?

5 A I don't believe that that question can be
6 answered in generalities.

7 Q If you had a rate of reoperation of greater
8 than 10 percent of a procedure that is intended to be a
9 permanent treatment, would you consider that rate to be
10 too high?

11 A Once again, I think that's -- I cannot comment
12 on generalities. When I do a complicated cancer
13 surgery, there are rates that are clearly higher than 10
14 percent. And patients are aware of that, for
15 reoperation for major complications. And that is
16 something that a patient has to decide. It's my job to
17 provide them the information to make a good decision.

18 Q What rate of reoperation do you give to your
19 patients in whom you are going to implant the TVT-O?

20 A In my hands, less than 5 percent.

21 Q Do your patients always return to you for
22 treatment of complications? Do you track patients and
23 their complications?

24 MR. KOOPMANN: Objection to form.

25 THE WITNESS: We do track patients, patients

1 insomuch as if they do not return for their
2 postoperative visits, we contact them, all
3 patients, for all reasons, and will document why
4 the patient hasn't followed up.

5 BY MS. O'DELL:

6 Q What is your normal postoperative follow-up
7 schedule?

8 A For what procedure?

9 Q For a TVT-O.

10 A I will -- my typical follow-up schedule, if a
11 patient is having no postoperative problems, is to see
12 them in two weeks.

13 Q Do you see them again after that?

14 A Yes, I do. If they are having no issues
15 whatsoever, I will see them again in three months. If
16 they are having issues, I may see them a week later, two
17 weeks later. It all depends on what their concerns are.

18 Q Is it your opinion that the reoperation rate
19 for the TVT-O is 5 percent?

20 MR. KOOPMANN: Objection. Form.

21 MS. O'DELL: What's wrong with the question?

22 MR. KOOPMANN: Well, I think it could be
23 vague, because I don't know what reoperation rate
24 you are talking about, if it's overall or specific.

25 MS. O'DELL: He just testified a few minutes

1 ago that his reoperation rate was 5 percent.

2 BY MS. O'DELL:

3 Q Is that what you said?

4 And my question to you, is that based on your
5 personal experience?

6 A It's based on my personal experience.

7 Q But you do not keep a log of your procedures
8 for the TVT-O, true?

9 A True.

10 Q And you do not have a systematic follow-up for
11 your patients beyond the follow-up that you just
12 outlined, true?

13 A I follow up on my patients longer term, if
14 that's what you are asking.

15 Q Do you call them a year out, Dr. Schwartz, or
16 18 months out, and ask them if they are doing okay?

17 A I see -- if my patient is having no issue
18 after their three-month visit, I see them in six months
19 for follow-up. If the patient is having no issues after
20 six months, I see them in one year. If in one year they
21 are doing -- they are having no issues, then I
22 specifically tell them that they are discharged and if
23 they should have any problems to please contact me.

24 Q Is that your follow-up protocol for every
25 patient who has a surgery for stress incontinence?

1 A Every patient, yes.

2 Q Every patient.

3 Okay. Beyond the one-year mark, is there any
4 attempt to follow them?

5 A Yes. So if we're talking typically, two
6 weeks, three months, then six months, then one year
7 later, that gets me to, oh, about a year and three
8 quarters.

9 Q Do you keep a registry of any complaints
10 lodged by your patients in regard to a particular
11 medical device implanted?

12 A I do not.

13 Q Would you agree with me that a device that has
14 been reported in the literature to have a reoperation of
15 greater than 15 percent is unsafe?

16 MR. KOOPMANN: Objection to form.

17 THE WITNESS: I could not make that comment.

18 BY MS. O'DELL:

19 Q In terms of your appreciation of the risk and
20 benefits, would that evaluation -- strike that. I'll
21 start again.

22 Turn to Page 17 of the Schimpf article, e17,
23 Dr. Schwartz.

24 You'll see in the middle column, the first
25 paragraph, "Rate of reoperation for SUI at three years

1 of follow-up favored retropubic in this population.
2 18.3 percent of women in the obturator group required
3 reoperation versus 1.2 percent in the retropubic group
4 on intention-to-treat analysis."

5 In your opinion, is an 18.3 percent
6 reoperation rate an acceptable rate of reoperation in
7 terms of safety?

8 A I'm assuming that they are including patients
9 who are being reoperated on for recurrent or persistent
10 incontinence.

11 Q My question is, Is an 18.3 percent reoperation
12 rate an acceptable rate for a medical device in terms of
13 safety?

14 A I don't believe that 18 percent is reflecting
15 the safety issues of the sling.

16 Q I disagree with you. We're going to disagree
17 a lot today. But assuming it is -- strike that.

18 Taking a person back to the operating room has
19 significant risk, true?

20 A No. Not necessarily.

21 Q It's a serious adverse event to have to go
22 back to the operating room, true?

23 A That must be qualified with the fact that
24 incontinence procedure has a very clear success rate,
25 subjective and objective, and there are patients who

1 will decide to return to the operating room if they have
2 a leakage episode after bungee jumping, and there are
3 some patients who are perfectly happy going from six
4 pads to two pads and feel that they have had a wonderful
5 success.

6 So I don't believe you can characterize return
7 to the operating room in terms of, simply in terms of
8 complications.

9 Q So you don't think return to the operating
10 room is a serious adverse event?

11 MR. KOOPMANN: Object to form.

12 THE WITNESS: Return to the operating room --

13 BY MS. O'DELL:

14 Q Yes or no. So if it's a no, that's fine.

15 A No.

16 Q Fair enough.

17 And you believe that that 18 percent is
18 composed of women who experience infrequent episodes of
19 SUIs? Is that your opinion?

20 A No. That potentially includes patients who
21 have not achieved their desired level of continence.

22 Q And what do you rely on in making that
23 statement?

24 A I would have to review the whole paper to give
25 you a specific answer.

1 Q But you are making an assumption by saying
2 that at this point, true?

3 A I am. I am making an assumption.

4 Q When the TVT came on the market, were you an
5 early adopter?

6 A An early adopter of the TVT?

7 Q Excuse me. Were you an early adopter of the
8 TVT-O?

9 A Yes.

10 Q And were you provided samples of the TVT-O to
11 use in your practice prior to it being marketed?

12 A I'm not sure I understand the question.

13 Q Were you provided samples of the TVT-O device
14 right at the time or prior to it becoming available to
15 the general population of surgeons?

16 A That was provided to me at the time that it
17 became, was -- yes. At the time it became available.

18 Q At that time was there any clinical data to
19 support the efficacy and safety of the TVT-O?

20 A Yes. There was clinical data to support that.

21 Q What was it?

22 A I would have to review my loose-leaves here to
23 answer that for you.

24 Q And in your view, is a one-month study of less
25 than 100 or 107 patients sufficient clinical data to

1 perform a procedure?

2 A Based on the fact that I was familiar with the
3 mesh and am familiar with pelvic anatomy and felt that
4 that would be beneficial to patients as compared to what
5 was available, yes. I had already been performing
6 outside, in slings, with the Monarc device, so I was
7 very familiar with the procedure, with the anatomy, with
8 potential problems that could arise and how I had to
9 inform patients.

10 Q Do you agree with the statement that a
11 procedure involving a medical device needs to be
12 subjected to thorough clinical testing before it should
13 be placed on the market?

14 A Not necessarily.

15 Q And in your opinion, there was adequate
16 clinical data at the time that you started using the
17 TVT-O?

18 A Yes.

19 Q Were you aware that Ethicon made a decision
20 that clinical data would not be required prior to
21 launching the product?

22 MR. KOOPMANN: Object to form.

23 BY MS. O'DELL:

24 Q And by "product" I mean the TVT-O.

25 A I cannot recall reading anything to that

1 effect.

2 Q Do you think it's important that a medical
3 device manufacturer have data prior to placing a device
4 on the market that is going to be implanted in patients
5 permanently?

6 A That absolutely depends on what types of
7 devices are already available for use, as well as the
8 similarities, the differences. Is it a similar
9 material? Is it the same type of mesh? There are many
10 factors that should go into that answer.

11 Q Would you agree with me it would be wrong for
12 a company to place a device on the market that utilizes
13 a different method for implanting the device in the
14 absence of clinical data?

15 A Once again, it would depend on what devices
16 and materials are already available from that company
17 and from other companies.

18 Q When the TVT-O was placed on the market, were
19 there any other transobturator slings -- there were no
20 other transobturator slings that used the inside-out
21 method, correct?

22 A Correct.

23 Q And that was a new method for implanting a
24 midurethral sling, true?

25 A That was a variation on an already established

1 method.

2 Q It was a new way to implant the sling, true?

3 MR. KOOPMANN: Object to form.

4 THE WITNESS: Once again, it was the same
5 procedure.

6 BY MS. O'DELL:

7 Q Performed differently?

8 A Performed with a variation, yes.

9 Q So it's not the same as the Monarc, true?

10 MR. KOOPMANN: Object to form --

11 BY MS. O'DELL:

12 Q -- in terms of the manner in which it was
13 implanted?

14 A Correct.

15 Q True?

16 A Correct.

17 Q I mean --

18 A Yes. True.

19 Q And there was no data on the TVT-O at the time
20 of launch, true?

21 A There was data on the -- on the TVT-O when it
22 was launched.

23 Q Okay. Let me ask you this question and move
24 to a new topic. There wasn't, but we'll move on.

25 Starting on Page 16 of your report, if you

1 will turn back to that, you go through a series of
2 articles, starting with Dr. de Leval and colleagues.

3 Did you write this portion of your report?

4 MR. KOOPMANN: Object to form.

5 Don't provide information regarding your
6 drafting of the report. That's privileged
7 information, the preparation of the reports.

8 BY MS. O'DELL:

9 Q Did you select the studies that you have
10 focused on beginning on Page 16 of your report?

11 A I was -- I had integral involvement in the
12 studies in the whole report.

13 Q How were they selected?

14 A Well, the initial study by de Leval is --

15 Q No, sir. I'm asking you how you selected
16 these, the studies that you have summarized in your
17 report. I'm asking you --

18 A Relevance.

19 Q Okay. Turning to Page 17, Dr. Schwartz, you
20 mention a study by Angioli. On Page 18. Excuse me.

21 You state that there were no reports of
22 chronic pelvic pain in the Angioli study.

23 Have you reviewed that study, sir?

24 A Yes.

25 Q And was chronic pelvic pain an end point of

1 that study?

2 A I would have to review the study.

3 Q Do you know?

4 A I cannot answer that without reviewing the
5 study. Would you like me to review it?

6 Q Well, if you need to review it, we'll go off
7 the record and I'll be happy to have you do that.

8 MR. KOOPMANN: We need to stay on the record.

9 If you want to ask specific questions about the
10 literature, then that's part of the deposition.

11 MS. O'DELL: I'm just asking him a specific
12 question.

13 MR. KOOPMANN: If he's going to review it, I
14 think time spent reviewing articles that you want
15 him to ask him a specific question about --

16 MS. O'DELL: I disagree with that.

17 BY MS. O'DELL:

18 Q If you want to read the study, sir, I'm happy
19 to hand it to you.

20 A There is a big one with "TVT."

21 MS. O'DELL: We should go off the record.

22 MR. KOOPMANN: I think we should stay on the
23 record, or I'm objecting to going off the record to
24 answer questions that you are asking about a
25 specific article.

1 MS. O'DELL: We should go off the record.

2 (Discussion off the record at 10:43 a.m.)

3 (Back on the record at 10:44 a.m.)

4 MS. O'DELL: Back on.

5 All right. Lynn, would you please re-ask the
6 question.

7 (The record was read back.)

8 THE WITNESS: Not according to the objective.

9 BY MS. O'DELL:

10 Q Let me show you what I'm going to mark as
11 Exhibit 8.

12 (Exhibit 8 marked for identification.)

13 MS. O'DELL: Sorry, Barry. I don't have
14 another copy.

15 BY MS. O'DELL:

16 Q You note in Groutz the cure rates.

17 And, Dr. Schwartz, in considering Groutz, did
18 you -- why didn't you consider or note that in elderly
19 patients there was a 19 percent increase in -- or
20 occurrence -- excuse me -- of de novo OAB in patients
21 who were elderly?

22 A Well, it was -- I summarized, and there was
23 one paragraph with several sentences.

24 Q Did you consider, in evaluating Groutz, that
25 11 percent of the patients who were younger had thigh

1 pain that lasted one to three months?

2 A I'm not sure I understand the question.

3 Q Do you consider an occurrence, 11 percent
4 occurrence of thigh and leg pain after a procedure to be
5 a significant frequency in terms of an adverse event?

6 A All adverse events have to be discussed with
7 patients, and if this procedure provided less overall
8 complications, and equal or better outcomes, then prior
9 procedures that I've done -- then I would consider
10 transient leg or thigh pain, which is what I consider
11 this to be, acceptable, and especially when it's
12 discussed with the patient.

13 Q At what point would you consider leg and thigh
14 pain not to be transient? If you consider three months
15 transient, at what point does it become a chronic
16 condition?

17 A When, despite various basic treatment options,
18 it doesn't resolve or if it doesn't resolve
19 spontaneously with time. And I qualify that because
20 surgical incisions hurt, and they can most certainly
21 hurt for three months or even six months. But it's
22 clear to me that nearly all of them resolve with time
23 and will resolve spontaneously.

24 Q What literature do you base your opinion on
25 that three months is considered to be transient? Do you

1 have a reference that you rely on in making that
2 statement?

3 A I do not, no. I'm basing that on my own
4 clinical experience.

5 Q And you would agree with me, wouldn't you,
6 Dr. Schwartz, that there is literature that notes any
7 condition that continues consistently to 9 weeks, it
8 would be considered a chronic condition, true?

9 A I don't necessarily agree with that.

10 Q And in outlining your opinions regarding the
11 Groutz article, you failed to note the incidence of OAB,
12 thigh pain, urge and UTIs, true?

13 A They were not included.

14 Q You write on Page 20 of your report that
15 "high-quality evidence has shown complication rates with
16 midurethral slings such as the TVT-O to be low."

17 What percentage of a complication rate do you
18 consider to be low? In other words, what percentage do
19 you have to reach before, in your mind, it tips over to
20 be not a low rate of complications but an unacceptable
21 rate?

22 A That's completely dependent upon the procedure
23 and what is being defined as "a complication rate."
24 Some people would define persistent incontinence a
25 complication and assign that a complication rate, while,

1 in actuality, that's not a complication rate.

2 Q That's a failure, true?

3 A Correct.

4 Q And do you find that a de novo overactive
5 bladder at a rate of 24 percent in the first year, the
6 the first year following the implant of an TVT-O, to be
7 an acceptable rate in terms of the safety of a TVT-O
8 sling?

9 A If a patient considers their outcome to be
10 more beneficial than their occurrence of OAB symptoms,
11 yes.

12 Q What if they don't? What if they would rather
13 leak than have frequency and urge 24/7?

14 A Well, my experience is when that is the case
15 that I can address their de novo OAB symptoms fairly
16 easily.

17 Q You've told us about your experience. Is
18 there any reference in the literature that you've cited
19 that supports that conclusion?

20 A There are -- there are mounds of literature to
21 discuss the effectiveness of antimuscarinic and
22 anticholinergic medication in addressing OAB symptoms.

23 Q Is that literature that you've read and relied
24 on and listed in your materials in this case?

25 A No.

1 Q Is there any literature that you've relied on
2 in rendering your opinions specifically related to the
3 TVT-O that would support your statement that a 24.3
4 percent rate of overactive bladder following the implant
5 of a TVT-O is an acceptable complication rate?

6 A My opinions -- my opinions and stated facts
7 are based on an entire career of accumulation, and there
8 is no way that that can be excluded from comments I have
9 dealing with the TVT-O, nor can I include all of the
10 medical literature regarding all of the facts to get to
11 this level here in this room. It would be onerous and
12 unreasonable.

13 Q And so I appreciate your comment, but, to be
14 fair, you are basing what you are saying on your
15 personal experience, true?

16 A I don't agree with that.

17 Q I mean, I just heard you say that you are
18 basing it on your personal experience in your individual
19 practice, true?

20 A No, no. The data that looks at the
21 effectiveness of overactive bladder with anticholinergic
22 or antimuscarinic oral therapy shows that it is
23 exceptionally effective in addressing those issues.

24 Q Well, and, Dr. Schwartz, to be clear, I didn't
25 ask you about the effectiveness of those therapies.

1 What I asked you was whether it was your opinion that a
2 24.3 percent rate of de novo OAB following the
3 implantation of a TVT-O was an acceptable complication
4 rate, and you said, "Yes, based on my experience."

5 Did I understand that correctly?

6 MR. KOOPMANN: Object to form.

7 THE WITNESS: No. I commented very
8 specifically that it is an acceptable result if
9 patients find their procedure to be successful.

10 BY MS. O'DELL:

11 Q What if they don't find their procedure to be
12 successful; is that an acceptable rate of OAB, de novo
13 OAB?

14 MR. KOOPMANN: Object to form.

15 THE WITNESS: I don't necessarily consider
16 that to be excessive or problematic and is
17 certainly treatable nonsurgically.

18 BY MS. O'DELL:

19 Q Yes or no.

20 MR. KOOPMANN: Object to form.

21 THE WITNESS: Could be. I can't apply a yes
22 or no to that question.

23 BY MS. O'DELL:

24 Q Do you tell your patients when you discuss
25 with them a TVT-O that they have a 24 -- one-in-four --

1 let me put it this way: One in four, approximately,
2 patients will have de novo overactive bladder?

3 MR. KOOPMANN: Object to form.

4 THE WITNESS: What I discuss with my patients
5 regarding overactive bladder is that 60, 60 to 70
6 percent of them who have overactive bladder
7 symptoms will derive significant benefit from their
8 continence surgery, and that, if they do not have
9 those symptoms, that they can develop after the
10 procedure.

11 BY MS. O'DELL:

12 Q Do you tell your patients who do not have OAB
13 prior to the implantation of a TVT-O device that they
14 have a one-in-four chance of having OAB following the
15 procedure? Yes or no.

16 A No.

17 Q Do you tell your patients -- let me back up
18 and ask it this way.

19 Is an outcome following the implantation of a
20 TVT-O of one in four women having de novo dyspareunia an
21 acceptable outcome, in your opinion?

22 A The literature has extensively looked at the
23 rates of dyspareunia following that procedure, and
24 various high-quality, large studies have shown that rate
25 to be exceedingly low.

1 Q What studies are you referring to?

2 A There are -- there is the AUA 2009 study that
3 came out in 2012. And there is -- several of the --
4 there is the large Cochrane analysis.

5 Q Did you consider, in rendering your opinions,
6 studies that showed a high rate of dyspareunia in cases
7 where a patient was implanted with a transobturator
8 sling?

9 A I reviewed many, many studies that discussed
10 dyspareunia.

11 Q That's really not my question.

12 Did you review studies involving a
13 transobturator device that reported rates of dyspareunia
14 at 24 percent in rendering your opinions in this case?

15 A I may have.

16 Q Did you or do you recall that?

17 A I do not recall -- I cannot recall the
18 specific percentage.

19 Q Can you recall any studies that you reviewed
20 that showed an increase in dyspareunia in patients who
21 had a transobturator sling of greater than 10 percent?

22 A I cannot state that specifically.

23 Q Let me show you what I'm marking as Exhibit
24 10.

25 (Exhibit 10 marked for identification.)

1 BY MS. O'DELL:

2 Q Have you seen this study before?

3 A I don't think I have.

4 Q And so it's fair to say, if you haven't seen
5 it, you didn't consider it in rendering your opinions,
6 true?

7 A True.

8 Q And if you'll look in the abstract,
9 Dr. Schwartz, on the right side, it says, "De novo
10 internal dyspareunia was reported in 4 out of 17, or 24
11 percent, of the transobturator group and none in the
12 retropubic group."

13 Do you see that?

14 A Yes, I do.

15 Q And that was not information you took into
16 account in rendering your opinions, true?

17 A True. This is a rather small study.

18 Q Is a study with 127 women a study with an
19 acceptable size?

20 A Well, it's more than 25 transobturator
21 patients in this study.

22 Q What methodology do you utilize in determining
23 if a study has sufficient size for you to consider it?

24 A Part will be the statistical relevance.

25 Q How many patients, in your mind, is a

1 sufficient number in order for a study to be worth your
2 consideration?

3 A Any study is easy to review. I don't know
4 that I'd necessarily not review a study based on the
5 number of patients, but I do consider that a statistical
6 significance, when comparing outcomes, when comparing
7 complications, is important.

8 (Exhibit 12 marked for identification.)

9 BY MS. O'DELL:

10 Q Let me show you what I'm marking as Exhibit
11 Number 12.

12 Did you consider this study in rendering your
13 opinions in this case?

14 A I don't recall.

15 Q And this is a study comparing the TVT to the
16 TVT-O. It involves 127 patients. Do you see that in
17 the abstract under Results?

18 A Yes.

19 Q Following that, it says, "The study was
20 stopped early due to excess leg pain and tension-free
21 vaginal tape obturator group." It goes to know to say,
22 "More women complained of leg pain after receiving a
23 tension-free vaginal tape obturator, TVT-O, in 26.4
24 percent versus 1.4 percent in the retropubic group."

25 Do you see that?

1 A I do, and I'm well aware that the
2 transobturator procedure does have an increased risk of
3 leg pain. And I use that with many other factors in
4 deciding what is the safest and most effective procedure
5 for a patient.

6 Q And so you would agree with me that in
7 patients who develop leg pain following the TVT-O that
8 the TVT-O is a reasonable explanation for the cause of
9 their leg pain?

10 A The procedure is likely the cause of their leg
11 pain.

12 Q That's not really what I asked you, but let me
13 ask you this way.

14 Would you agree with me that the implantation
15 of a TVT-O in the presence of the TVT-O device in a
16 patient is a reasonable explanation for leg pain
17 following the implantation?

18 A I'm not sure I understood the question.

19 Q Would you agree with me that the implantation
20 of a TVT-O in the presence of a TVT device in a patient
21 is a reasonable explanation for leg pain following the
22 procedure?

23 A I'm sorry. It's still an ambiguous question
24 to me.

25 Q What's ambiguous about it?

1 A That I've stated that the procedure is likely
2 what contributes to the leg pain.

3 Q In your opinion does the presence of a mesh
4 through the obturator foramen contribute to the
5 development of leg or groin pain?

6 A Unlikely. It's the procedure itself. It's
7 the going through the muscles, going through the fascial
8 tissues, having some trauma to those tissues, some
9 degree of hematoma there, all contributes, not to
10 mention being in stirrups with your hips flexed to 90
11 degrees.

12 Q Well, the procedure itself is dictated by the
13 instructions for use that's generated by Ethicon, true?

14 A A technical description of the procedure is in
15 the IFU.

16 Q That describes a pathway of the mesh through
17 the obturator foramen, true?

18 A True.

19 Q And you would criticize a physician who
20 departed from the instructions for use in implanting,
21 the procedure, true?

22 MR. KOOPMANN: Object to the form.

23 THE WITNESS: Not necessarily. I mean, every
24 patient, every single patient has slightly
25 different anatomy. Every procedure has to be

1 typically adapted in some way to address that
2 particular patient.

3 BY MS. O'DELL:

4 Q You write in your report that one of the
5 benefits of a TVT-O procedure is that it's reproducible
6 each time.

7 Is that different than what you are saying
8 now, that a surgeon should feel free to vary the
9 procedure in any way that they deem appropriate?

10 A Those comments are not mutually exclusive.

11 MS. O'DELL: Move to strike as nonresponsive.

12 BY MS. O'DELL:

13 Q In your opinion, Dr. Schwartz, is groin pain
14 at a rate of 16 percent an acceptable outcome following
15 the implantation of a TVT-O?

16 A Yes.

17 Q Sir, what is the exhibit number on the study?

18 A Twelve.

19 Q In your opinion, over what time after the
20 implantation of a TVT-O would you expect to see erosion?

21 A My experience has been that episodes of
22 erosion will be identified prior to six months.

23 Q Is that opinion you've just stated, is that
24 published in the literature?

25 A Well, you asked me for my opinion.

1 Q I did.

2 A I gave it to you.

3 Q Okay. And here is my job today. When you
4 give an opinion, whether you express it here in your
5 deposition or in your report, I have the job to ask you
6 what you are relying on in rendering your opinion, and
7 this is my opportunity to learn that. And if there is
8 something you are relying on that's not reflected in
9 these materials or it's specific, I would like to know
10 it, and I think I'm entitled to know that.

11 So if you say that there is going to be
12 erosion following a TVT-O, that it's going to be six
13 months, then I would like to know what you are relying
14 on. If it's your personal experience only, then you
15 just tell me that.

16 A And I am not only relying on my personal
17 experience. The vast majority of studies that identify
18 erosion identify them as early complications.

19 MS. O'DELL: How long have we been going?

20 THE COURT REPORTER: Two hours and 15.

21 MS. O'DELL: So we have 45 minutes left.

22 (Exhibit 13 marked for identification.)

23 BY MS. O'DELL:

24 Q Let me show you what I'm marking as Exhibit
25 13, Dr. Schwartz.

1 Have you seen this publication?

2 A I don't believe so.

3 Q Okay. And this article, first author, Zhang,
4 published in 2016, followed 120 patients that were
5 randomized in either TVT or TVT-O. And you'll see in --
6 the tape exposure was possible up to seven years after
7 the TVT-O.

8 Do you see that?

9 A Yes.

10 Q And that's not something that you considered
11 in rendering your opinions in this case, true?

12 A No. That's -- no, that's not true. It's not
13 something that I consider typical, even despite the low
14 rate of erosion.

15 Q You had not considered this study when you
16 rendered your opinions in this case, true?

17 A Correct. Correct.

18 Q And would you consider an objective cure rate
19 of 69.35 percent to be acceptable following the
20 implantation of a TVT-O?

21 A It depends on the study selection and who was
22 included. In some scenarios that would be perfectly
23 acceptable.

24 Q For a index patient under the AUA guidelines,
25 is that an acceptable cure rate?

1 A Because I haven't had the chance to look at
2 this, if these are patients who were undergoing
3 secondary procedures, yes, that's -- if this study
4 includes patients undergoing -- also undergoing
5 secondary procedures, then that would be an acceptable
6 cure rate.

7 Q If it's initial procedures, which I think that
8 to be the case, but, if it's initial procedures, is a
9 69.3 percent cure rate acceptable in your mind?

10 A Not being consistent with most of the
11 literature in terms of acceptable rates, I don't find
12 that to be dramatically different than the typical
13 literature, which has much better results.

14 Q So you would discount this study and the
15 outcomes or the -- yes, the outcomes of the study?

16 A I can't discount any study until I have had an
17 opportunity to fully review and scrutinize the
18 specifics.

19 Q And that's not one that Ethicon counsel made
20 available to you, correct?

21 A Not that I recall.

22 MR. KOOPMANN: Object to form.

23 BY MS. O'DELL:

24 Q Turning to Page 28 of your report,
25 Dr. Schwartz, you write, "I have used mechanically cut

1 TVT-O slings and I have used laser-cut TVT-O Abbrevio and
2 TVT-Secur slings, and I have found there to be a" --
3 excuse me -- "I have not found there to be a clinically
4 significant difference in the way mesh itself performs."

5 We've already discussed you don't keep a
6 registry nor a log of your surgical procedures, true?

7 A True.

8 Q Do you keep a register or log of the patients
9 in whom you implant a mechanical cut mesh versus
10 laser-cut mesh?

11 A No.

12 Q Have you done any study or review of your
13 patients to determine if there is a clinically
14 significant difference in how the meshes perform? In
15 other words, have you reviewed their charts? Have you
16 done anything to inform yourself as to whether there is
17 a clinically significant difference between how
18 laser-cut versus mechanical put mesh is performed in
19 your patients?

20 A I simply rely on my clinical experience.

21 Q Is that a no?

22 A I do not -- I have not performed a study
23 identifying who has laser-cut and mechanical cut mesh.

24 Q You write, In my patients in whom I've
25 implanted mechanically cut TVT-O sling, I have not seen

1 fraying, roping or curling as plaintiffs' experts have
2 suggested."

3 Have you examined the mesh that you've removed
4 from patients to determine if it is fraying, curling,
5 roping?

6 A I've examined it grossly, yes.

7 Q Have you documented those findings in any way?

8 A In an operative report?

9 Q Yes.

10 A No.

11 Q Have you made any other notation of your gross
12 examination of explanted mesh?

13 A No.

14 Q Do you perform ultrasounds, vaginal
15 ultrasounds of your patients in order to evaluate
16 implanted mesh?

17 A No.

18 Q Have you done a literature search to find
19 studies that have evaluated the way mesh changes, frays,
20 ropes or curls in vivo?

21 A I have read several studies that have
22 discussed mesh issues, and I believe that was included.

23 Q Have you done any review or search yourself to
24 seek out studies that describe the fraying, roping or
25 curling of the mesh in vivo?

1 A I have not done a specific literature search
2 on those issues.

3 Q And so you are relying on the literature that
4 Ethicon counsel has provided to you, correct?

5 MR. KOOPMANN: Object to form.

6 THE WITNESS: Yes.

7 BY MS. O'DELL:

8 Q Dr. Schwartz, have you ever designed a mesh?

9 A No.

10 Q Do you have any training as a medical device
11 engineer?

12 A No.

13 Q Do you have any training in materials in terms
14 of the properties of polypropylene or how it reacts to
15 agents within the body?

16 A Insomuch as I've used polypropylene for 25
17 years in many different forms.

18 Q Have you performed any scientific studies?

19 A No, I have not.

20 Q Have you performed any experiments on
21 polypropylene to evaluate how it reacts to agents found
22 within the human body?

23 A No experiment.

24 Q You go on to say, "The strong efficacy in
25 safety exhibited in public literature on MUS predating

1 the ability of laser-cut mesh slings is consistent with
2 a strong efficacy and safety exhibited in the published
3 literature since laser-cut mesh has been available."

4 Did I read that correctly?

5 A I think so.

6 Q I tried to. I'm not sure I did, but I've
7 tried to give it my best shot. Here is the question.

8 Are you aware of any published clinical
9 literature that identifies whether a TVT-O device was
10 laser-cut or mechanical cut?

11 A Please repeat that.

12 Q My point is, you say, "The strong efficacy
13 exhibited in the published literature on MUS predating
14 the availability of laser-cut," and you go on to talk
15 about mechanical cut. The bottom line is this. Are you
16 aware of any studies involving patients that include
17 information as to whether the mesh is laser-cut or
18 mechanical cut?

19 A Well, one can extrapolate if a study included
20 only mechanically cut mesh based on the date because it
21 was before the laser-cut mesh was available.

22 Q My question is, Are you aware of any clinical
23 trials that specifically delineate whether the TVT-O
24 that was implanted was mechanical cut or laser-cut?

25 A Are you asking me have there been studies

1 comparing the two?

2 Q I'm asking you, in the published literature,
3 is there any study involving a TVT-O that identifies the
4 specifics as to whether the mesh was laser-cut or
5 mechanical cut? Yes or no.

6 A Not that I know of.

7 Q You say, "Nor have I seen any clinically
8 significant contraction in the TVT-O mesh slings that I
9 have used. In my experience tissue ingrowth occurs as
10 expected following the implantation of the sling, and
11 while the scar tissue can be expected to contract to an
12 extent, I have not seen a contraction of the tissue that
13 leads to problems."

14 What have you done to evaluate whether mesh
15 contracts?

16 A Clinical examination.

17 Q What do you mean by that?

18 A Examining patients after their procedures have
19 been performed to assess for any palpable mesh, any
20 erosions, any other local issues.

21 Q And you are talking about performing a pelvic
22 exam and attempting to palpate the mesh, true?

23 A I'm talking about after patients have their
24 procedure, examining them to confirm whether I can
25 identify any problems.

1 Q Do you, in those pelvic exams, make any effort
2 to measure the change in the mesh in terms of surface
3 area from the time of implant to the time that you
4 evaluate it?

5 A I can tell you that I can almost never feel
6 the mesh after implantation.

7 Q That's not my question.

8 Do you make any effort to measure the
9 difference in the surface area from the date of implant
10 to the date of your examination?

11 A But that's an impossible question.

12 Q Yes or no. Do you or do you not?

13 A No.

14 Q Have you reviewed literature that evaluates
15 contracture of mesh?

16 A I have reviewed some studies that discuss in
17 vivo mesh changes.

18 Q Would you agree with me, if the surface area
19 of mesh is reduced by 36 percent, that could result in a
20 patient experiencing pain?

21 A I don't believe it's the surface area of the
22 mesh that's reduced. I believe it to be the ingrowth of
23 fibroblast and other tissues and part of wound healing
24 that result in the change that you are mentioning.

25 Q And what do you base that opinion on?

1 A I base that opinion on my knowledge of Prolene
2 and my clinical experience.

3 Q If experts that Ethicon sought out disagreed
4 with your opinion, would you defer to those experts?

5 A It would depend on their opinion.

6 Q Let me show you what I'm marking as Exhibit
7 Number 14.

8 (Exhibit 14 marked for identification.)

9 BY MS. O'DELL:

10 Q Dr. Schwartz, have you seen this document
11 before?

12 A I don't believe so.

13 Q I'll represent to you that this is a document
14 that memorializes the discussion that took place on June
15 the 2nd, 2006. It was a meeting posted by Ethicon, and
16 it had participants that were Ethicon employees, as well
17 as academic physicians and experts that Ethicon invited
18 to come together to discuss mesh properties.

19 And if you'll turn to Page 2 and you look at
20 the bottom of the page, you'll see two line items that
21 deal with shrinkage.

22 Do you see that?

23 A Yes.

24 Q And the discussion is that shrinkage of 20
25 percent means a reduction of mesh area, surface area, to

1 64 percent. In other words a 36 percent reduction in
2 the surface area of the mesh.

3 Is that information that Ethicon ever provided
4 to you?

5 MR. KOOPMANN: Object to form.

6 THE WITNESS: Not that I recall.

7 BY MS. O'DELL:

8 Q And would you agree with me that a 36 percent
9 reduction in the surface area of mesh more likely than
10 not will have clinical significance?

11 A I disagree.

12 Q Okay. And in disagreeing with that, is there
13 any literature that you are relying on in making that
14 statement?

15 A I'm relying on the multitude of high quality
16 literature that attests to the effectiveness of the
17 procedure and, as such, the mesh up to 15-plus years.
18 So I maintain that the clinical relevance is directly
19 related to those results.

20 Q And you are talking about the Nilsson series
21 of studies that focus on efficacy. Is that what you are
22 referring to?

23 MR. KOOPMANN: Object to form.

24 THE WITNESS: One of them.

25 BY MS. O'DELL:

1 Q Any others?

2 A There are. I would have to --

3 Q Would you --

4 A -- go through.

5 Q Excuse me. Sorry.

6 Would you agree with the general principle
7 that contraction of 36 percent of the surface area of
8 mesh increases the risk of pain?

9 A No.

10 Q And did you evaluate any studies that focus on
11 the clinical significance of mesh contracture in
12 patients who have been implanted with a midurethral
13 sling?

14 A I recall a study that looked at explanted
15 mesh.

16 Q Do you recall the name of it?

17 A I do not.

18 Q And do you remember the first author?

19 A I do not.

20 Q And do you recall the outcome of the study
21 generally? I'm not talking about specifics, but what
22 brought it to your mind. Obviously, you are thinking of
23 something.

24 A Yes. No. I recall that the, that that was a
25 fairly unique report that looked at a subset of patients

1 who had mesh explanted.

2 Q And what was the conclusion, as you recall?

3 A I didn't find the conclusion very clinically
4 useful.

5 Q What was it?

6 A That they were talking -- discussing different
7 characteristics that were found after further examining
8 explanted mesh.

9 Q And what was their conclusion?

10 A I can't exactly recall the conclusions.

11 Q Was the conclusion that contracture of the
12 mesh contributed to adverse events associated with the
13 mesh product?

14 A I can't recall if that was the case, but I
15 would disagree with that anyway.

16 Q Okay. What's your method for disagreeing with
17 it? How did you discount that?

18 A Based on a combination of the medical
19 literature and my experience, the contraction that
20 occurs with fibroblast ingrowth certainly occurs but
21 does not result in clinical significance. And that's
22 supported by the high degree of effectiveness, even
23 longer term, with this material.

24 Q Well, in terms of contracture, its implication
25 is not on effectiveness, is it, Doctor, but rather on

1 the safety of the product, true?

2 A Can you repeat that for me?

3 Q In terms of contracture, the implication is
4 not on the effectiveness of the mesh but rather on the
5 safety, true?

6 A I don't know that I agree with that.

7 Q Okay. Let me ask you one other question,
8 just to make sure I've rounded that out.

9 Have you ever performed any studies,
10 independent of your own -- strike that.

11 Have you ever performed any studies to measure
12 contracture in transvaginal mesh?

13 A No.

14 Q Have you ever published on it?

15 A No.

16 Q You go on to say on Page 29 that "Plaintiff's
17 experts have offered the opinion that the mesh and the
18 TVT family of products is cytotoxic and degrades. I
19 disagree."

20 What do you mean by "cytotoxic"?

21 A Destructive to human tissue.

22 Q Are you referring to chronic inflammation when
23 you say "cytotoxicity"?

24 A No.

25 Q And in terms of -- did you say destruction of

1 human tissue? Is that your definition of cytotoxicity?

2 A Yes. Cells and human tissue.

3 Q And on what basis do you conclude that mesh is
4 not, to use your word, cytotoxic?

5 A Once again, based on my experience with
6 implant, explant, examining patients and the millions
7 and millions of women who have had successful mesh
8 implants provides me with a large amount of information
9 that mitigates against the mesh being cytotoxic.

10 Q Have you reviewed mesh -- are you a
11 pathologist?

12 A Sorry?

13 Q Are you a pathologist?

14 A No.

15 Q Are you a materials expert?

16 MR. KOOPMANN: Object to form.

17 THE WITNESS: Just insofar as I have used
18 certain materials for decades.

19 BY MS. O'DELL:

20 Q But you don't study them in the same way that
21 a materials science or a polymer scientist would, true?

22 A True.

23 Q And you have put them in for decades, but
24 you've never gone into a laboratory for purposes of
25 evaluating microscopically a mesh product, true?

1 A True.

2 Q And in the women who have come to you for
3 treatment and you have removed mesh, have you examined
4 that mesh for purposes of determining if it has
5 degraded?

6 A Just gross inspection only.

7 Q And so if degradation is not possible to
8 appreciate grossly, then you have never reviewed mesh
9 for purposes of determining that it has degraded, true?

10 A I have never microscopically examined
11 explanted mesh.

12 Q And on what basis do you say, Dr. Schwartz,
13 that TVT-O mesh does not degrade?

14 A Once again, based on my clinical experience
15 implanting and explanting the mesh and the long-term
16 studies that look at the effectiveness. If the mesh
17 degraded, the procedure efficacy would be dramatically
18 different. And when I explant mesh, it looks very
19 similar to when I implant the mesh, but I'm talking
20 grossly.

21 Q You are stating that the mesh, when you
22 explant it, looks similar to pristine mesh when you
23 remove it?

24 A No. It has fibroblast ingrowth and --

25 Q It looks remarkably different, true? In fact,

1 you can barely see the mesh due to, you know, tissue,
2 blood, et cetera?

3 MR. KOOPMANN: Object to form.

4 THE WITNESS: I can always see the mesh.

5 BY MS. O'DELL:

6 Q The mesh fiber is covered in tissue and I'm
7 assuming blood from the procedure in many instances,
8 true?

9 A True. But I can always identify the blue
10 mesh. I believe I've only implanted blue-colored mesh.

11 Q Well, fair enough. You can see the color
12 blue, but in terms of examining the mesh fibers, the
13 mesh is covered in material that would prevent you, on
14 gross examination, from determining if there has been
15 degradation or breakdown in the actual fiber, true?

16 A I can only assess it grossly. I have not
17 assessed it microscopically.

18 Q So is that true?

19 A You would have to repeat the question.

20 Q Yes.

21 Okay. And has Ethicon ever shared with you
22 the information they have about the fact that Prolene
23 degrades in vivo?

24 MR. KOOPMANN: Object to form.

25 THE WITNESS: Not that I know of.

1 BY MS. O'DELL:

2 Q Have you reviewed -- let me say this, to save
3 time.

4 If Ethicon internally has known that Prolene
5 degrades in vivo since 1987, that would be news to you,
6 correct?

7 MR. KOOPMANN: Object to form.

8 THE WITNESS: Yes. I'm not aware of that
9 information.

10 BY MS. O'DELL:

11 Q Would you want to see that information in
12 order to consider your opinions in this case that mesh
13 does not degrade?

14 A I don't think that that would affect my choice
15 of procedures.

16 Q That's not my question.

17 You have opined specifically that mesh does
18 not degrade. If Ethicon has information that
19 categorically states that Prolene degrades, is that
20 information you would want to have in rendering your
21 opinions in this case?

22 A The clinical significance of mesh degradation,
23 if it occurs to any significant degree, has no signs,
24 that I have found, affecting outcome of the procedures.

25 Q All right. Is it no longer your opinion that

1 mesh does not degrade?

2 MR. KOOPMANN: Object to form.

3 BY MS. O'DELL:

4 Q Because what I hear you saying now is it may
5 degrade, but, if it degrades, it's not clinically
6 significant. So here is the question.

7 Does it degrade? Is it your opinion it does
8 not degrade?

9 A In my experience --

10 Q No, sir.

11 A But in my experience there is no clinically
12 significant mesh degradation.

13 Q Now. Okay. So, as I read your report, it
14 says, "Plaintiff's experts have offered the opinion that
15 the mesh in the TVT family of products is cytotoxic and
16 degrades. I disagree."

17 It should be you are not disagreeing that it
18 degrades, you are just saying it's not clinically
19 significant in your view; is that your opinion?

20 A From my -- from my research all I can say is,
21 from a materials science standpoint, I have not read any
22 material that convinces me that there is any significant
23 degree of mesh degradation.

24 Q Let me just -- is it your opinion that mesh
25 does not degrade?

1 A It is. It is my opinion that there is, based
2 on my experience with Prolene, I don't believe that
3 there is any significant degree of mesh degradation.

4 Q So when it says, "I disagree," in regard to
5 degradation, you are changing your opinion to say, I
6 don't think it's significant, I don't think it degrades
7 significantly?

8 A I'm not changing my opinion.

9 Q You are not changing it.
10 So when you say you disagree, what are you
11 relying on?

12 MR. KOOPMANN: Object to form.

13 THE WITNESS: I'm relying on, once again, my
14 clinical experience with Prolene, with the mesh and
15 the long-term efficacy studies. That's what I'm
16 basing my opinion on.

17 BY MS. O'DELL:

18 Q And so in your mind efficacy is a matter of --
19 degradation is a matter of efficacy and not safety,
20 fair?

21 A I feel that safety would certainly be an issue
22 as well. I've -- I -- my research has not suggested
23 that there are safety issues arising from a causal
24 relationship with mesh changes.

25 Q Let me show you Exhibit 14.

1 (Exhibit 14B marked for identification.)

2 BY MS. O'DELL:

3 Q Have you seen this document before?

4 A I have not.

5 Q You'll see it's dated September 30th, 1987,
6 and the title is IR Microscopy of Prolene, Received from
7 Professor R. Guidoin. I don't know how to pronounce
8 that.

9 Do you see that?

10 A I do.

11 Q If you'll turn to Page 2, sir.

12 Under Conclusion, No. 3, it says, "The IR
13 spectra of this scraped material is clearly
14 polypropylene but it appears to be degraded in an
15 oxidative fashion."

16 Do you see that?

17 A I do.

18 Q No. 4, "The degraded portion of the 8-year
19 explant makes up only a minor portion of the suture."
20 But clearly there is a finding of degradation.

21 Do you see that?

22 A Yes, I do.

23 Q And that's not information that was provided
24 to you by Ethicon, true?

25 A I have not seen this report.

1 Q And have you considered literature -- in what
2 literature have you considered and relied on in regard
3 to your opinion that mesh does not degrade?

4 A Once again, it's a result of my long-term
5 experience with Prolene and the long-term efficacy
6 studies.

7 Q Okay. If you'll turn over to Page 30, you say
8 at the top of the page, "Plaintiffs' experts have also
9 offered the opinion that larger pore or lighter weight
10 meshes would have been safer to use in the TVT-O sling.
11 I disagree."

12 We've established you have not designed a mesh
13 product. Have you published in the area of pore size or
14 mesh density?

15 A No.

16 Q Have you performed any research in that area?

17 A No.

18 MR. KOOPMANN: Object to form.

19 BY MS. O'DELL:

20 Q Have you taught any students about the issue
21 of pore size in mesh density and what those should be in
22 a medical device?

23 A I discussed this issue with --

24 Q Have you taught a course on it?

25 A No, I have not.

1 Q Do you know the size of the -- strike that.

2 What's the pore size of the mesh?

3 A About 1300 microns.

4 Q What is the density?

5 A The weight is about 100 grams per meter
6 squared.

7 Q How do you know that?

8 A From my research.

9 Q Your research in rendering your opinions in
10 this case?

11 A Yes.

12 Q You say that the pore size and weight are
13 optimal. Is there a specific material that you rely on
14 in order to say that it's optimal?

15 A My research, basically reading of the
16 material, has suggested that that is an optimal pore
17 size.

18 Q Have you done an independent research
19 review -- excuse me -- research to determine what has
20 been written regarding pore size and density, outside
21 the materials given to you by Ethicon?

22 A No, I have not.

23 Q Sir, what is the last exhibit number that I
24 used?

25 A Fourteen.

1 Q Okay.

2 (Exhibit 15 marked for identification.)

3 BY MS. O'DELL:

4 Q Let me show you what I'm marking as Exhibit

5 15. This is an IFU for the TVT.

6 I'm assuming you are familiar with this?

7 MR. KOOPMANN: Leigh, I think you gave me your

8 copy.

9 BY MS. O'DELL:

10 Q If you'll turn, sir, to Page -- I believe it's

11 Page 6 or 5 of the exhibit.

12 Earlier, sir, you testified that, in your

13 mind, transient leg pain was up to three months. Do you

14 recall that?

15 A Yes.

16 Q And would you agree with me, under the

17 Warnings and Precautions section, that the transient leg

18 pain that Ethicon defines is 24 to 48 hours?

19 A I'm sorry. Repeat the question, please.

20 Q Are you -- what page are you on, sir?

21 A Six.

22 Q Okay. Great.

23 If you'll look down in the Warnings and

24 Precautions section, as it proceeds on to Page 6 of

25 Exhibit 15, you'll see the third bullet point says,

1 "Transient leg pain lasting 24 to 48 hours may occur and
2 usually can be managed with mild analgesics."

3 A Yes. I see that.

4 Q And is it fair to say your opinion of
5 transient leg pain being three months is very different
6 from what is described here in the IFU, true?

7 MR. KOOPMANN: Object to form.

8 THE WITNESS: Leg pain is leg pain.

9 BY MS. O'DELL:

10 Q Okay. Ethicon in the IFU defines "transient"
11 as 24 to 48 hours. Do you see that?

12 MR. KOOPMANN: Object to form.

13 THE WITNESS: It's not clear to me that they
14 define it that way.

15 BY MS. O'DELL:

16 Q They don't say three months, do they, sir?

17 A They say "may occur."

18 Q Twenty-four to 48 hours of leg pain is a very
19 different complication following a procedure than
20 consistent leg pain of three months. Would you agree
21 with that?

22 A I comment that the majority of my patients
23 have leg pain lasting up to 48 hours. There are -- I
24 have had patients with some degree of leg pain that does
25 not resolve for up to three months.

1 Q And that would -- according to the IFU, that
2 would not be transient leg pain, true?

3 MR. KOOPMANN: Object to form.

4 THE WITNESS: I define transient leg pain as
5 I've defined it, which is pain that resolves on its
6 own.

7 BY MS. O'DELL:

8 Q That's your definition of transient leg pain?

9 A Transient leg pain, yes, is that it resolves
10 spontaneously.

11 Q Are you suggesting -- let me just cut to the
12 chase.

13 Does the IFU warn of chronic leg pain?

14 A The IFU can't include every single --

15 Q That's not my question.

16 A I understand that.

17 Q So here is my question.

18 Does the IFU include chronic leg pain?

19 A They list transient leg pain, is how they
20 define it.

21 Q Does it include a warning of leg pain that
22 lasts beyond 48 hours?

23 A Not specifically.

24 Q And you would agree with me, Dr. Schwartz,
25 that studies such as the Teo study that we looked at

1 earlier, Exhibit 12 reports leg pain of much longer than
2 48 hours in upwards of 26 percent of the patients in
3 that particular study.

4 Do you recall that?

5 A I recall looking at that study, yes.

6 Q And so it would be fair to say there was
7 information available of instances of leg pain that
8 lasted longer than 48 hours that were not included in
9 the IFU, true?

10 A There is no way that the IFU can include all
11 potential issues that can arise from surgery.

12 Q And so is the answer to my question yes,
13 that's true?

14 MR. KOOPMANN: Object to form.

15 THE WITNESS: I'm sorry. You'll have to
16 repeat the question.

17 BY MS. O'DELL:

18 Q The IFU does not warn of leg pain lasting
19 longer than 48 hours, does it, sir?

20 A The IFU makes no specific reference to leg
21 pain lasting longer than that time.

22 Q And the IFU does not warn of dyspareunia,
23 true?

24 A I do not see dyspareunia listed here.

25 Q And it does not include a warning of urge

1 incontinence, urgency or frequency, true?

2 A Well, by the same token it doesn't comment
3 that it will prompt improvement in the majority of women
4 who have that problem.

5 Q We're talking about warnings and adverse
6 reactions. And let me ask you to turn to Page 32 of
7 your report.

8 You say, "There is no need for Ethicon to warn
9 surgeons about risks inherent in any pelvic floor
10 surgery," and you include infection, inflammation,
11 bleeding, scarring, bladder damage, bowel damage, nerve
12 damage, urethral damage, pain, pelvic pain, dyspareunia,
13 groin pain, and you go on to list others.

14 Is it fair to say that, regardless of what the
15 known risks are, those adverse outcomes, they were not
16 included in the IFU of the TVT-O?

17 A Once again, I don't feel that's the role of
18 the IFU.

19 Q Have you ever written a warning for a medical
20 device or an IFU?

21 A No, I have not.

22 Q Have you been asked to consult with a medical
23 device manufacturer to assist in writing an IFU?

24 A I have not been asked to assist in writing an
25 IFU.

1 Q And is it your opinion that you outline here
2 on Page 32 what was not necessary to include in the IFU,
3 based on your personal experience?

4 A And the experience of my colleagues as well.

5 Q What colleagues are you referring to?

6 A My surgical colleagues.

7 Q Your partners?

8 A Yes.

9 Q In your medical practice?

10 A Yes.

11 Q Anything else?

12 A Basically surgeons in general. Surgeons don't
13 rely on IFUs to provide them with complication
14 information.

15 Q And what do you base that statement on?

16 A That most --

17 Q Sir, I'm asking for a reference.

18 A Most procedures don't have an IFU available.

19 Q I'm talking about a medical device, and all
20 medical devices have IFUs, and I'm asking, when you say
21 there is no need to put into an IFU known risks of a
22 procedure, you've stated that you base that on your
23 personal experience and talking with your colleagues.

24 Is there anything else you base that opinion
25 on?

1 A Not that I can think of currently.

2 Q In your view, Ethicon has no duty to provide
3 information about risk of a product; is that fair?

4 MR. KOOPMANN: Object to form.

5 THE WITNESS: Is that stated here?

6 BY MS. O'DELL:

7 Q I'm asking you the question, sir.

8 A I'm sorry. What was the question?

9 Q The question is, In your view, does Ethicon
10 have a duty to provide information about known risks of
11 a product in an IFU?

12 A No. The surgeon is responsible for
13 understanding and learning about risks of procedures
14 from literature, peer-reviewed textbooks, peers,
15 meetings, et cetera.

16 Q Does Ethicon have a duty to provide
17 information about known risks to patients in their
18 patient brochures?

19 MR. KOOPMANN: Object to form.

20 THE WITNESS: That's a duty that should fall
21 on the surgeon.

22 BY MS. O'DELL:

23 Q So if Ethicon is printing a brochure for
24 distribution to patients who are going to ostensibly be
25 implanted with a TVT-O or another device in the TVT

1 family, do they have a duty to include known risks?

2 MR. KOOPMANN: Object to form.

3 THE WITNESS: No. That's the job of the
4 surgeon.

5 BY MS. O'DELL:

6 Q Are you going to opine, to a reasonable degree
7 of medical certainty, that Ethicon provided adequate
8 training to surgeons on the implantation of the TVT-O?

9 A Ethicon provided me with adequate training and
10 I in turn provided other surgeons with adequate
11 training.

12 Q Do you have any opinion as to the overall
13 training provided by Ethicon to surgeons who purchase
14 the TVT-O product?

15 A I cannot attest to what their experience was.

16 Q You can only attest to your own experience?

17 A Correct.

18 Q Okay.

19 MS. O'DELL: I've got about five minutes left,
20 and I'll reserve it.

21 MR. KOOPMANN: So I should ask my follow-up
22 questions now?

23 MS. O'DELL: If you have any.

24 CROSS EXAMINATION

25 BY MR. KOOPMANN:

1 Q Dr. Schwartz, counsel asked you some questions
2 about the Schimpf article earlier.

3 Do you still have that one in front of you?
4 It's here.

5 If you'll turn to Table 3.

6 A Yes.

7 Q In that article you will see the adverse event
8 rates for various types of adverse events for various
9 types of sling procedures and non-sling incontinence
10 procedures, correct?

11 A Correct.

12 Q And one of the rates referenced there is a
13 dyspareunia rate with obturator procedures of 0.16
14 percent; is that right?

15 A Correct.

16 Q And is this article an article that you relied
17 on in forming your opinions in these cases?

18 A Yes.

19 Q The rate of return to operating room for
20 erosion was 2.7 percent in the transobturator sling
21 patients, correct?

22 MS. O'DELL: Object to form.

23 THE WITNESS: Correct.

24 BY MR. KOOPMANN:

25 Q And what was the rate of exposure for

1 transobturator sling patients?

2 A 2.2 percent.

3 Q What was the rate of wound infection for
4 transobturator patients?

5 A 0.74 percent.

6 Q And what was the rate for pubovaginal sling
7 patients?

8 A 2.6 percent.

9 Q And what was the rate of wound infection for
10 Burch procedure patients?

11 A 7 percent.

12 Q What was the rate of bowel injuries for
13 obturator patients?

14 A Nonexistent.

15 Q What was the rate of bowel injury for Burch
16 patients?

17 A 3.13 percent.

18 Q Is bowel injury a significant adverse event?

19 A It's a potentially life-threatening event.

20 Q What was the rate of overactive bladder or
21 urgency in obturator patients, based on this study?

22 A 0.3 percent.

23 Q And this study is a systematic review and
24 meta-analysis?

25 A Yes.

1 Q Is that high quality scientific evidence?

2 MS. O'DELL: Object to form.

3 THE WITNESS: Yes.

4 BY MR. KOOPMANN:

5 Q What was the rate of overactive bladder or
6 urgency in the pubovaginal sling patients?

7 A 8.6 percent.

8 Q And what was it in the Burch patients?

9 A 4.3 percent.

10 Q What was the rate of retention lasting longer
11 than six weeks in the obturator patients?

12 A 2.4 percent.

13 Q And was that rate -- how did that rate compare
14 to the other rates studied?

15 A It was the lowest of the group, including
16 obturator, retropubic, mini-sling, pubovaginal and
17 Burch.

18 Q And one of the articles that counsel asked you
19 about was the Cholhan article.

20 A Yes.

21 Q If you'll turn to the second page of that
22 article, on the right-hand side they talk about, "More
23 than half of their patients, 28 out of 52, underwent
24 concurrent surgery for prolapse in addition to the
25 transobturator or retropubic sling."

1 Do you see that?

2 A I see that now.

3 Q And then they go on to note after that, that,
4 "Of the four transobturator patients with de novo
5 internal dyspareunia, two had supracervical hysterectomy
6 with abdominal sacrocolpopexy and one had a posterior
7 colporrhaphy, and one had a transobturator sling alone."

8 Is that right?

9 A Correct.

10 Q You were also asked some questions about the
11 Teo study. Do you recall that?

12 A Yes.

13 Q Okay. And in the Teo study, if you'll turn to
14 the second to last page, there is a discussion of leg
15 and groin pain being experienced by 26.4 percent of the
16 women of the TVT-O group, which is what counsel asked
17 you about, right?

18 A Yes.

19 Q Further down, in the middle of that paragraph,
20 it says, "There was sufficient response to amitriptyline
21 and gabapentin, which obviated the need for tape removal
22 in those patients."

23 Is that right?

24 A Yes.

25 Q And then it says, "In all other cases of leg

1 pain in the TVT-O group the problem resolved
2 spontaneously within three months."

3 Is that right?

4 A Correct.

5 Q Another article you were asked about is the
6 Zhang study.

7 A Yes.

8 Q And they note in the Zhang study, in the
9 Results section of the long-term complication rates for
10 TVT and TVT-O were 43.1 percent and 27.4 percent
11 respectively; is that right?

12 A Yes.

13 Q And counsel asked you about tape exposure
14 being possible seven years after the TVT-O. Do you
15 remember that?

16 A Yes.

17 Q Okay. If you'll turn to the second to last
18 page you'll see the Conclusions section.

19 A Yes.

20 Q And at the end of that Conclusions section,
21 the authors of this Zhang study noted that, "Despite the
22 high incidence of long-term complications most
23 complications were not consequential and the patient's
24 QOL retained significant improvements in the long term."

25 Is that right?

1 A Correct.

2 MS. O'DELL: Object to the form.

3 BY MR. KOOPMANN:

4 Q What is "QOL"?

5 A Quality of life.

6 Q And they also note that sexual function was
7 unchanged by either procedure; is that right?

8 A Correct.

9 Q You were asked some questions a few minutes
10 ago about the instructions for use for the TVT
11 obturator.

12 In the Adverse Reaction section on Page 6 of
13 that document it notes that, "Punctures or lacerations
14 of vessels nerves, bladder, urethra or bowel may occur
15 during needle passage and may require surgical repair."

16 Is that right?

17 A Yes.

18 Q And as a urologic surgeon and pelvic floor
19 surgeon, is it obvious to you that pain could result
20 from punctures or lacerations of vessels, nerves,
21 bladder, urethra or bowel?

22 MS. O'DELL: Object to form.

23 THE WITNESS: Yes.

24 BY MR. KOOPMANN:

25 Q And did you need an IFU to tell you that pain

1 could result from adverse reactions like that?

2 A No.

3 Q As a urologic surgeon, do you know that pain
4 could result after any surgery?

5 A Pain can result following any surgery.

6 Q Can it result after a Burch procedure?

7 MS. O'DELL: Object to form.

8 THE WITNESS: Yes.

9 BY MR. KOOPMANN:

10 Q Can it result after pubovaginal sling
11 procedures?

12 A Yes.

13 Q And can pain that results after any surgery be
14 temporary or permanent?

15 A Yes.

16 Q Handing you some of the articles that you've
17 got in file materials here today, and ask you some
18 questions about some of those.

19 A Okay.

20 MS. O'DELL: Do you have a copy for me?

21 MR. KOOPMANN: I do.

22 BY MR. KOOPMANN:

23 Q One of the articles you have there is the
24 Abdel-fattah study. Do you see that one?

25 A Yes.

1 Q In that study the authors looked at a database
2 with 34,631 women; is that right?

3 A Yes.

4 Q And this is a study that you reviewed in the
5 course of forming your opinions in this case?

6 A Yes.

7 Q If you will look at Page 5 of the study, it
8 indicates in the left-hand column that, "Sixty-seven
9 women had at least one repeat urinary incontinence
10 surgery, giving a reoperation rate of 8.8 percent."

11 Is that right?

12 MS. O'DELL: Can you show me where you are
13 reading, please?

14 MR. KOOPMANN: Right here.

15 THE WITNESS: Left side, second paragraph.

16 MR. KOOPMANN: Yes. Halfway through the
17 paragraph. Page 5.

18 MS. O'DELL: I gotcha.

19 THE WITNESS: Yes.

20 BY MR. KOOPMANN:

21 Q And then on the right-hand column at the top
22 it says, "The reoperation rate for urinary incontinence
23 was 3.2 percent in the midurethral sling group, 10.7 in
24 the abdominal retropubic surgery group."

25 Is that right?

1 A Yes.

2 MS. O'DELL: Object to the form.

3 BY MR. KOOPMANN:

4 Q You also have a study there by Ford and
5 others, the Cochrane review.

6 Do you have that?

7 A Yes.

8 Q This is a study that you reviewed and relied
9 on in forming your opinions in these cases?

10 A Yes.

11 Q And on the third page there they noted --
12 third page of the document, but it's labeled Page 2 at
13 the bottom?

14 A Okay.

15 Q It says Main Results at the top?

16 A Yes.

17 Q And in the fourth paragraph in that page it
18 notes that, "The overall rates of vaginal tape
19 erosion/exposure/extrusion was low in both groups: 24
20 out of 1,000 instances with the transobturator compared
21 with 21 out of 1,000 for the retropubic."

22 Is that what that indicates?

23 A Yes.

24 Q And do you have, as part of that document --
25 it's the last page, Page 30 and 31. That's the last two

1 pages.

2 A Yes.

3 MR. KOOPMANN: Do you have those, Leigh?

4 MS. O'DELL: Yes.

5 BY MR. KOOPMANN:

6 Q And at the bottom of Page 30 the author has
7 assessed sexual function, quality of life measures.

8 Do you see that section?

9 A Yes.

10 Q And the bottom paragraph in that column, it
11 says, "In all the trials there was significant
12 improvement in sexual function from baseline scores
13 during the follow-up period that spans 6 to 24 months."

14 Did I read that correctly?

15 A Yes.

16 Q And it says, "There were no significant
17 differences between the two groups at 24-month
18 follow-up. Rates of superficial and deep dyspareunia
19 were low with no difference between the groups."

20 Is that right?

21 MS. O'DELL: Object to the form.

22 THE WITNESS: Yes.

23 BY MR. KOOPMANN:

24 Q And if you go back to Page 2 that we looked at
25 a moment ago, this study looked at 55 trials with data

1 contributed by 8,652 women, which compared the use of
2 the transobturator route and retropubic route.

3 Is that right?

4 A Yes.

5 Q Do you have an article there by Michele
6 Jonsson Funk?

7 MS. O'DELL: Are you going to mark these for
8 the record?

9 MR. KOOPMANN: Well, they are part of his file
10 materials. Are you going to mark his file
11 materials?

12 MS. O'DELL: I've marked all I'm going to
13 mark, but if you don't mark them, I'll mark them
14 when I go back on the record. Otherwise it's not
15 going to make any sense. I suggest you mark them,
16 but it's up to you.

17 MR. KOOPMANN: I didn't know if you had marked
18 these, that particular stack.

19 All right. I'll mark them.

20 (Exhibit 17 marked for identification.)

21 BY MR. KOOPMANN:

22 Q I'll mark for the record as Exhibit 17 a copy
23 of the Ford record article that was just discussed and
24 is in your file materials; is that correct?

25 A Correct.

1 Q And then I'll mark as Exhibit 18 a copy of
2 the --

3 MS. O'DELL: Abdel-fattah?

4 THE WITNESS: I have copies, two copies in my
5 pile. I just have to find it here.

6 (Exhibit 18 marked for identification.)

7 BY MR. KOOPMANN:

8 Q And then you've got a copy of the Jonsson Funk
9 article from your file. Let's mark that as Exhibit 19.

10 (Exhibit 19 marked for identification.)

11 BY MR. KOOPMANN:

12 Q You haven't commented on that. I'll ask you
13 some questions about this.

14 I've marked it as Exhibit 19; is that correct?

15 A Yes.

16 Q And this study looked at 188,454 eligible
17 women who underwent an index sling procedure?

18 A Yes.

19 Q And they found that, "The nine-year cumulative
20 risks of sling revision/removal was 3.7 percent."

21 Is that right?

22 A Yes.

23 Q You had mentioned earlier the 2009 AUA
24 guidelines regarding the surgical management of stress
25 incontinence --

1 A Yes.

2 Q -- that was updated in 2012.

3 Do you have a copy of that in your file?

4 A Yes.

5 Q We'll mark that.

6 (Exhibit 20 marked for identification.)

7 MS. O'DELL: Is it Exhibit 20?

8 MR. KOOPMANN: Yes.

9 BY MR. KOOPMANN:

10 Q And if you'll turn to the second to last page,
11 you should see Appendix A16.

12 Do you see that page?

13 A Yes.

14 Q Okay. And these are guidelines that you
15 reviewed and relied on in forming your opinions in this
16 case?

17 A Yes.

18 Q And in that Appendix A16, it lists
19 complication rates for synthetic slings at the
20 midurethra; is that right?

21 A Yes.

22 Q And it notes a rate of pain as a subjective
23 complication at a rate of 1 percent; is that correct?

24 MS. O'DELL: Object to form.

25 Excuse me, Doctor.

1 Are you on Page A16, Synthetic -- are you on
2 the last page or the next to last page of this
3 exhibit?

4 MR. KOOPMANN: It is the second to last page.

5 MS. O'DELL: Okay. All right. Do you mind
6 repeating your question?

7 MR. KOOPMANN: In the middle column, it says
8 Synthetic at Mid-Urethra.

9 Do you see that section?

10 MS. O'DELL: Yes.

11 BY MR. KOOPMANN:

12 Q Dr. Schwartz, the subjective complication of
13 pain was reported to occur in 1 percent of patients
14 studied, correct?

15 A Yes.

16 MS. O'DELL: Object to the form.

17 BY MR. KOOPMANN:

18 Q Was what I said correct?

19 A What you said was correct.

20 Q And what was the rate of sexual dysfunction?

21 A Zero.

22 Q What was the rate of voiding dysfunction?

23 A 2 percent.

24 Q Do you have a study by Giovanni Tommaselli in
25 your stack of materials there?

1 A Yes.

2 (Exhibit 21 marked for identification.)

3 BY MR. KOOPMANN:

4 Q Before I move on from the AUA guidelines, I've
5 marked those as Exhibit 20; is that correct?

6 A Correct.

7 Q Would you please put that Exhibit 21 sticker
8 on the Tommaselli article?

9 A (The witness complies.)

10 Q This article by Dr. Tommaselli and colleagues
11 was written in 2015; is that correct?

12 A Yes. Accepted for publication 2015.

13 Q And this was a systematic review and
14 meta-analysis, correct?

15 MS. O'DELL: Object to the form.

16 THE WITNESS: Yes.

17 BY MR. KOOPMANN:

18 Q And if you'll turn to Page -- well, it's the
19 page with Table 3 on it.

20 Do you see that page?

21 A Yes.

22 Q That shows the number of total transobturator
23 sling patients that were studied in the article,
24 correct?

25 A Yes.

1 Q And the total was what?

2 A The total transobturator, 1,500 -- no. All
3 studies, 2,432.

4 Q Okay. And then if you'll turn to the next
5 page, you'll see the paragraph that's got a header
6 Tape-Related Long-Term Complications.

7 Do you see that?

8 A Yes.

9 Q And what does it say there in the second
10 sentence in that paragraph?

11 A Starting "persistent"?

12 Q Yes.

13 A "Persistent or severe voiding problems" --

14 Q I think you've got the wrong one. Second
15 sentence, not the third.

16 A "Persistent or chronic pain, pain persisting
17 beyond the peri-operative period or reported at the last
18 follow-up visit, was reported by 13 patients for the
19 retropubic MUS and 30 patients for the transobturator
20 MUS."

21 Q And if you do that calculation, 30 patients
22 divided by 2,432, it would be a 1.2 percent rate of
23 chronic or persistent pain with the transobturator
24 procedure, based on this study?

25 MS. O'DELL: Object to the form.

1 THE WITNESS: Yes.

2 BY MR. KOOPMANN:

3 Q And that's a study you reviewed and relied
4 upon in forming your opinions in this case?

5 A Yes.

6 Q You have a study there by Cecile Unger and
7 colleagues?

8 A Yes.

9 Q I'll mark that as Deposition Exhibit 22.
10 (Exhibit 22 marked for identification.)

11 BY MR. KOOPMANN:

12 Q Is this a study that you reviewed in the
13 course of forming your opinions, relied on?

14 A Yes.

15 Q And this study involved an analysis of 3,307
16 women who underwent sling placement; is that right?

17 A Yes.

18 Q And 89 of those women, or 2.7 percent of the
19 3,307, underwent sling revisions for one or more of
20 various indications; is that right?

21 MS. O'DELL: Object to the form.

22 THE WITNESS: Yes.

23 BY MR. KOOPMANN:

24 Q And of that 2.7 percent that underwent a sling
25 revision, 21.3 percent of those were for mesh erosion;

1 is that right?

2 A Yes.

3 Q So 21.3 percent of 2.7 percent?

4 A Yes. That's about 5 1/2 percent.

5 MS. O'DELL: Object to the form.

6 BY MR. KOOPMANN:

7 Q So 21.3 percent of 89 people, it would be 19
8 people; is that right?

9 MS. O'DELL: Object to the form.

10 THE WITNESS: Yes.

11 BY MR. KOOPMANN:

12 Q And 19 people divided by 3,307 women would
13 yield a complication rate of 0.57 percent; is that
14 right?

15 A Yes.

16 Q And then vaginal pain and dyspareunia was the
17 indication for sling revisions in 7.9 percent of the 89
18 women; is that right?

19 A Yes.

20 Q Okay. And 7.9 percent of 89 is seven people,
21 if you trust my math?

22 A Yes.

23 MS. O'DELL: Object to the form.

24 BY MR. KOOPMANN:

25 Q And seven women out of 3,307 would be 0.21

1 percent?

2 MS. O'DELL: Object to the form.

3 THE WITNESS: Yes.

4 BY MR. KOOPMANN:

5 Q And then 3.4 percent of the 89 women had sling
6 revision for groin pain; is that right?

7 A Correct.

8 Q Do you have a study in front of you there by a
9 Dr. Welk and colleagues?

10 A Yes.

11 MR. KOOPMANN: Let's mark that as Deposition
12 Exhibit 23.

13 (Exhibit 23 marked for identification.)

14 BY MR. KOOPMANN:

15 Q Is this a study that you reviewed and relied
16 upon in forming your opinions in this case?

17 MS. O'DELL: Object to the form.

18 THE WITNESS: Yes.

19 BY MR. KOOPMANN:

20 Q This study looked at -- well, it was a
21 population-based retrospective cohort study that
22 included all adult women undergoing an incident
23 procedure for SUI for synthetic mesh in Ontario, Canada,
24 from April 1st, 2002, through December 31st, 2012.

25 Is that right?

1 A Yes.

2 Q And in the Results section it indicates there
3 that, "Among the identified 59,887 women" -- strike
4 that.

5 It indicates that there were 59,887 women
6 studied as part of this group, this article, correct?

7 A Yes.

8 Q And they note in the middle of the Results
9 section there that, "Complications were treated in 1,307
10 women or 2.2 percent."

11 Is that right?

12 A Yes.

13 Q And they note that the ten-year cumulative
14 incidence rate was 3.29; is that right?

15 A Yes.

16 Q And then in the Conclusion Section they note
17 that, "Ten years after SUI mesh surgery 1 of every 30
18 women may require a second procedure for mesh removal or
19 revision."

20 Is that correct?

21 A Yes.

22 Q And that's a study that forms the basis or
23 part of the basis for your opinions in this case?

24 MS. O'DELL: Object to the form.

25 THE WITNESS: Yes.

1 BY MR. KOOPMANN:

2 Q You were asked some questions earlier about
3 the Angioli study. Do you remember going through that?

4 MS. O'DELL: I didn't mark the study.

5 MR. KOOPMANN: You didn't?

6 THE WITNESS: It's here. Do you want me to --

7 BY MR. KOOPMANN:

8 Q You have it included in your TVT-O general
9 report binder notebook that you brought?

10 A Yes.

11 Q Let's mark that notebook as Exhibit 24.

12 (Exhibit 24 marked for identification.)

13 BY MR. KOOPMANN:

14 Q Counsel asked you some questions about what
15 the primary end point was for this study.

16 Do you recall that?

17 A Yes.

18 Q And the Measurements section, what does it say
19 was the primary end point of this study, Measurement
20 Section of the abstract -- let me start that over.

21 A Okay.

22 Q In the Measurements section of the abstract,
23 what do the authors indicate was the primary end point
24 of the study?

25 A Long-term complications.

1 Q And this was a five-year study of the
2 tension-free vaginal tape versus transobturator
3 suburethral tape?

4 A Yes.

5 Q Specifically the TVT versus TVT-O slings,
6 correct?

7 A Yes.

8 Q And the authors' conclusions were that both
9 surgical techniques, meaning the TVT and TVT-O, were
10 safe with similar results and low complication rates; is
11 that correct?

12 MS. O'DELL: Object to the form.

13 THE WITNESS: Yes.

14 BY MR. KOOPMANN:

15 Q On Page 673 of that study, in the right-hand
16 column there is a reference to dyspareunia. And it
17 says, "Dyspareunia and incontinence during intercourse
18 occurred in 2, or 5.1 percent, and 4, or 10.2 percent,
19 respectively, of the 39 sexually active women who
20 completed follow-up."

21 Is that right?

22 A Yes.

23 Q In Table 4 they report long-term complications
24 that they saw in the TVT and TVT-O patients; is that
25 right?

1 A Yes.

2 Q How many cases of urinary retention did they
3 see in the TVT-O patients?

4 A Zero.

5 Q How many cases of de novo urgency?

6 A Two.

7 Q How many cases of chronic pelvic pain in the
8 TVT-O patients?

9 A Zero.

10 Q How many cases of pain during intercourse in
11 the TVT-O patients?

12 A One.

13 Q How many cases of incontinence during
14 intercourse in the TVT-O patients?

15 A Two.

16 Q How many cases of vaginal erosions?

17 A Two.

18 Q And in the Discussion section, the right-hand
19 column on that same page, they indicate in the bottom
20 paragraph, "Our data confirmed that neither approach
21 constituted an invasive procedure so that the majority
22 of women, 51 patients, which was 85 percent, would
23 undergo the same procedure again if SUI recurred,
24 especially within the TVT-O group."

25 Is that correct?

1 A Yes.

2 MS. O'DELL: Object to the form.

3 BY MR. KOOPMANN:

4 Q Is that consistent with what you've seen in
5 your patient population with your TVT-Os?

6 A Correct.

7 Q Are your patients generally happy with the
8 outcome of the procedure?

9 A Yes.

10 Q Turn to Page 675 of the Angioli study. In the
11 left-hand column, second full paragraph starting with
12 "development of"?

13 A Uh-huh.

14 Q There is a sentence there that says, "TVT-O
15 seems to be associated with a better impact on
16 sexuality, but there are insufficient data to allow the
17 comparison between retropubic and the transobturator
18 procedures with respect to sexual activity after
19 surgery."

20 Is that right?

21 A Yes.

22 Q And then on Page 676 of that article they
23 noted that out of the three vaginal erosions, that they
24 saw only one of the three was symptomatic while the
25 other two were found during a routine gynecologic exam;

1 is that right?

2 A Yes.

3 Q Do you have a study there from Dr. Serati in
4 your notebook in 2013?

5 A Yes.

6 Q And that's contained in the notebook we've
7 marked as Exhibit 24; is that right?

8 A Yes.

9 Q And that Serati study, this was a study with
10 five-year follow-up; is that right?

11 A Yes.

12 Q And they found that the five-year subjective
13 and objective cure rates with the TVT-O were 90.3
14 percent and 90.8 percent respectively, correct?

15 A Yes.

16 Q In the Discussion section at the top of page
17 876, the authors noted in the second sentence of that
18 section that they found the TVT-O to be a highly
19 effective and safe procedure; is that right?

20 MS. O'DELL: Object to the form.

21 THE WITNESS: Yes.

22 BY MR. KOOPMANN:

23 Q Do you have a study in your notebook marked as
24 Exhibit 24 by Dr. Liapis?

25 A Yes.

1 Q Okay.

2 A There is an '08 and a '10.

3 Q The 2010 I have a question about.

4 This was an efficacy study of the inside-out
5 transobturator vaginal tape, TVT-O, at four years'
6 follow-up; is that right?

7 A Yes.

8 Q And in the Results section of the abstract
9 there they say, "The objective cure rate based on the
10 pad test finding for the TVT-O only patients was 82.4
11 percent and the improvement rate was 6.8 percent."

12 Is that right?

13 A Yes.

14 Q And then they found that the objective cure
15 rate for the group undergoing TVT-O and anterior
16 colporrhaphy was 84.5 percent and the improvement rate
17 was 7.4."

18 A Yes.

19 Q In the Introduction section at the bottom of
20 that first paragraph they say, "The aim of this study
21 was to assess the efficacy and safety of the TVT-O
22 procedure with or without cystocele repair in the
23 treatment of USI in women at four years follow-up."

24 Is that right?

25 A Yes.

1 Q The top of Page 201 they note, top of the left
2 column, "Rejection of tape was found in one case on
3 patients with the TVT-O procedure at three months
4 postoperatively and in one case in patients with TVT-O
5 and anterior colporrhaphy at five months
6 postoperatively."

7 Is that correct?

8 A Yes.

9 Q And is this one of the studies that you relied
10 on in forming your opinion that most instances of
11 erosion occur early on after the procedure?

12 MS. O'DELL: Object to the form.

13 THE WITNESS: Yes.

14 BY MR. KOOPMANN:

15 Q The bottom of that left column on Page 201
16 they talk about postoperative pain in the last sentence.

17 Do you see that?

18 A Yes.

19 Q The authors have noted, "Postoperative pain
20 developed in 12.1 percent of patients with TVT-O and 9.7
21 percent of patients with TVT-O and anterior
22 colporrhaphy."

23 Is that right?

24 A Yes.

25 Q They then noted, "This pain was located in the

1 thigh region, unilateral or bilateral, and lasted, in
2 the great majority of cases, from one to two weeks but
3 one woman complained of pain for up to four months."

4 Did I read that correctly?

5 A Agree.

6 MS. O'DELL: For optimal completeness I
7 request that you read the next three sentences as
8 well.

9 BY MR. KOOPMANN:

10 Q They go to note, "The pain was managed with
11 non-steroidal anti-inflammatory analgesics effectively."

12 Is that correct?

13 A Yes.

14 MS. O'DELL: Keep going.

15 MR. KOOPMANN: I'll let you cover that,
16 Counsel, if you would like to.

17 Oh, I see.

18 MS. O'DELL: "An incidence of up to 16 percent
19 of postoperative pain has been reported and it
20 usually resolves within four weeks but in rare
21 cases persistent groin pain can be seen for up to
22 one year postoperatively."

23 BY MR. KOOPMANN:

24 Q Does it state that as well?

25 A Yes.

1 Q And the last paragraph of that page says, "In
2 the present study, TVT-O procedure alone or with
3 anterior colporrhaphy maintains a high cure and
4 improvement rate with very low complication rate at four
5 years follow-up and appears to be a promising technique,
6 but long-term results should be published for safer
7 conclusions to be made about its efficacy and
8 tolerability."

9 Is that what it says?

10 A Yes.

11 Q And this is a study that you relied on in
12 forming your opinions in this case?

13 A Yes.

14 Q Did you also review and rely on a study by a
15 Dr. Athanasiou, spelled A-T-H-A-N-A-S-I-O-U?

16 A Yes, from 2014.

17 Q Yes. And you have that included in Exhibit
18 24?

19 A Yes.

20 Q And this is a seven-year TVT-O study; is that
21 right?

22 A Yes.

23 Q Is that a long-term study?

24 A Yes.

25 Q This study looked retrospectively at women who

1 underwent the TVT-O procedure?

2 A Yes.

3 Q And they identified in the Results section
4 that, "Overall objective and subjective cure rates were
5 81.5 percent and 83.5 percent, respectively."

6 Is that right?

7 A Yes.

8 Q And their conclusion was that "the TVT-O
9 procedure provides high objective and subjective
10 long-term efficacy, a clinically meaningful improvement
11 in patient quality of life and an excellent safety
12 profile." Is that right?

13 MS. O'DELL: Object to the form.

14 THE WITNESS: Yes.

15 BY MR. KOOPMANN:

16 Q Turn to Page 221, please, of that study.

17 Actually, go back to 220 for a moment. In the
18 left-hand column, eight lines down, there is a sentence
19 that says, "Current evidence suggests that mid-urethral
20 sling, such as the retropubic tension-free vaginal tape
21 and the transvaginal, tension-free vaginal tape
22 obturator, or transobturator tape, TVT-O, TOT, have
23 become the treatment of choice and are considered the
24 gold standard."

25 Did I read that correctly?

1 MS. O'DELL: Object to the form.

2 THE WITNESS: Yes.

3 BY MR. KOOPMANN:

4 Q Is that a statement that you agree with, that
5 the TVT and TVT-O are the gold standard?

6 A Yes.

7 Q Now if you'll go to Page 221. It indicates
8 there that, in the right-hand column about two-thirds of
9 the way down, there is a paragraph that says, "There
10 were no major perioperative complications, such as
11 bladder perforations, vessel injuries and obturator
12 hematomas. One patient, 0.8 percent, reported
13 postoperative voiding difficulties that required tape
14 division three months after surgery."

15 Did I read that correctly?

16 A Yes.

17 Q It also says, "Another patient, 0.8 percent,
18 reported the presence of vaginal erosion diagnosed one
19 year after the procedure. It was situated on the
20 midurethral midline, and a large part of the tape was
21 excised. At the follow-up visit, no cases of vaginal
22 erosions were detected."

23 Is that correct?

24 A Yes.

25 Q They then go on to note, "Assessment of

1 postoperative urgency symptoms revealed that 76.3
2 percent of patients with preoperative urgency symptoms
3 reported an improvement at the time of the visit."

4 Did I read that correctly?

5 A Yes.

6 Q And is that one of the articles that supports
7 your opinion that patients with preoperative urgency or
8 overactive bladder symptoms improve after a TVT sling
9 placement?

10 A Yes.

11 MS. O'DELL: Object to the form.

12 BY MR. KOOPMANN:

13 Q On Page 223 in this study, in the right-hand
14 column, the authors note that, "Groin pain may occur
15 after transobturator procedures but mostly settles
16 within the first month following surgery."

17 Is that correct?

18 A Yes.

19 Q They then note, "Persistent groin pain can be
20 present in up to 3.8 percent of patients."

21 Is that correct?

22 A Yes.

23 Q And then they note, "At follow-up, no patient
24 reported persistent groin pain."

25 Is that right?

1 A Yes.

2 Q Have you been reviewing the literature
3 regarding the TVT-O sling long before you started
4 serving as an expert witness in this litigation?

5 A Yes.

6 Q You have been keeping up with the literature
7 regarding incontinence surgeries your entire career; is
8 that true?

9 MS. O'DELL: Object to the form. Leading.

10 THE WITNESS: Yes.

11 BY MR. KOOPMANN:

12 Q And your review of medical literature, both
13 specifically for purposes of this case and throughout
14 your career as a urologist and surgeon, has formed part
15 of the basis for your opinions that you've set forth in
16 your TVT-O general report; is that correct?

17 MS. O'DELL: Object to the form.

18 THE WITNESS: Correct.

19 BY MR. KOOPMANN:

20 Q And has your experience in treating patients
21 with the TVT-O sling also formed part of the basis for
22 your opinions regarding the safety and efficacy of the
23 TVT-O sling?

24 A Yes.

25 Q And has your review of the medical literature

1 and your experience regarding the treatment of patients
2 with the TVT obturator sling also formed the basis for
3 your opinions regarding the adequacy of the warnings
4 contained in the instructions for use for the TVT
5 obturator device?

6 MS. O'DELL: Object to the form.

7 THE WITNESS: Correct.

8 BY MR. KOOPMANN:

9 Q Do you practice evidence-based medicine?

10 A Yes.

11 Q What does that mean?

12 A That means I do everything possible to rely on
13 the literature to make decisions.

14 Q And is some literature of greater significance
15 than other types of literature?

16 MS. O'DELL: Object to the form.

17 THE WITNESS: There is dramatic diversity in
18 terms of quality of medical literature.

19 BY MR. KOOPMANN:

20 Q And is there sort of a hierarchy of the levels
21 of different scientific evidence?

22 A Yes. With Cochrane reviews and the
23 meta-analyses being at the top of that list.

24 Q Are the complications that you've seen in your
25 practice after treating patients with the TVT obturator

1 sling consistent with the warnings that you see in the
2 Adverse Reaction section of the Instructions for Use?

3 MS. O'DELL: Object to the form.

4 THE WITNESS: Yes.

5 BY MR. KOOPMANN:

6 Q Your report that's contained in Exhibit 24 for
7 the TVT-O device, do you hold the opinions set forth in
8 that report to a reasonable degree of medical and
9 scientific certainty?

10 A Yes, I do.

11 Q Can you think of a single randomized control
12 trial or systematic review and meta-analysis that you've
13 read that talks about the TVT mesh and the TVT sling
14 degrading or being cytotoxic?

15 MS. O'DELL: Object to the form.

16 THE WITNESS: No.

17 MR. KOOPMANN: I think those are all of the
18 questions I have.

19 REDIRECT EXAMINATION

20 BY MS. O'DELL:

21 Q Dr. Schwartz, you were asked about the
22 Abdel-fattah publication that was marked as Exhibit 18.
23 I think it's in the bottom of that stack, if I recognize
24 it correctly. Okay.

25 This study, which is an epidemiological study

1 of the Aberdeen Maternity and Neonatal Database, a
2 Scottish database, evidently, is there any distinction
3 that's made between TVT and TVT-O or are all slings
4 lumped together?

5 A I don't believe they separate it out.

6 Q And is that also true of a study that your
7 counsel marked as Exhibit 19, the Jonsson Funk study on
8 sling revision/removal for erosion and urinary
9 retention, long-term risk and predictors?

10 You can look at mine, sir.

11 A Thank you. I'm sorry?

12 Q Is there any distinction that is drawn between
13 retropubic and transobturator slings or are all
14 midurethral slings considered together?

15 A I don't believe there was a distinction made
16 here.

17 Q That's right.

18 And we would agree that the risk-benefit
19 analysis of a retropubic and transobturator sling is
20 different because of the different pathways for the
21 implantation of the sling, true?

22 A True.

23 Q And if you'll look at the AUA guidelines your
24 counsel asked about, and they were marked as Exhibit 20
25 and you were asked to look at the next to the last page

1 appendix, A16?

2 A Yes.

3 Q And synthetic midurethral slings are not
4 divided in this recitation of these numbers, are they?
5 They are considered in composite?

6 A Correct.

7 Q And, sir, you were asked some questions about
8 the Cochrane collaboration, Exhibit 17. For the record,
9 it's 2015 Cochrane review.

10 I would ask you to turn to 28, Page 28.

11 Do you see that, under Pain?

12 A Yes.

13 Q "There was a significantly higher occurrence
14 of groin pain in women who underwent a TOR, or
15 transobturator procedure, than in women who underwent an
16 RPR procedure."

17 True? Did I read that correctly?

18 A Yes.

19 Q You were also asked questions about the Welk
20 study, sir, the Canadian database review?

21 A Yes.

22 Q And that epidemiological study does not
23 separate out results between transobturator and
24 retropubic sling, true?

25 A Correct.

1 Q Similarly, counsel for Ethicon showed you the
2 Unger study and marked it as Exhibit 22.

3 A Yes.

4 Q In this study the authors do not distinguish
5 between implantation of a transobturator and retropubic
6 device, true?

7 A Correct.

8 Q You were asked about the Zhang article. I had
9 marked that previously --

10 A Yes.

11 Q -- as Exhibit --

12 A Thirteen.

13 Q -- 13.

14 And if you'll turn to the last page of this
15 study, it's right before Conclusions. Do you see on the
16 left-hand side about the middle of the way down the
17 page, there is a sentence beginning "Our data"?

18 Do you see that?

19 A Middle of the way down the page?

20 Q Yes. It says, "Our data demonstrated that
21 14.49 percent of patients experienced a worsened
22 dyspareunia post-operatively."

23 Did I read that correctly?

24 A Yes.

25 Q And then, lastly, Dr. Schwartz, counsel for

1 Ethicon marked as Exhibit 21 the Tommaselli publication
2 from 2015.

3 And if you'll turn to Page -- I believe it's
4 Page 7 under Figure 2. It's the same page you were
5 referred to earlier. I think you are on it.

6 On the left-hand side, do you see where it
7 says, "Complications were more common with a
8 transobturator midurethral sling than with newer
9 minimally invasive tapes"?

10 Do you see that?

11 A Yes.

12 Q "This result was due exclusively to
13 pain-related complications which were common with
14 transobturator midurethral slings."

15 Did I read that correctly, sir?

16 A Yes.

17 Q Would you agree with me, Dr. Schwartz, that,
18 in light of the literature you relied on, that perhaps
19 increased rates of pain complications with
20 transobturator slings, that for patients who develop de
21 novo pain following the implant of a TVT-O sling, that
22 one of the contributing causes of their pain is the
23 sling itself?

24 A I would not agree with that.

25 Q How do you rule out the data that we have just

1 reviewed from studies that you rely on in reaching that
2 conclusion?

3 A The postoperative pain symptoms are from the
4 procedure itself.

5 Q And what basis do you have for stating that
6 it's only the procedure that contributes to pain, it is
7 not the device itself?

8 A Because that variability is what accounts for
9 most patients not having that pain, the pain being very
10 transient, and --

11 (Cell phone interruption.)

12 THE WITNESS: I lost my train of thought. I'm
13 sorry. Can you read me the answer?

14 (The record was read back.)

15 THE WITNESS: Can you read me the question?

16 (The record was read back.)

17 THE WITNESS: -- that -- a combination of
18 factors, that most patients do not experience any
19 discomfort, the fact -- also the fact that, when it
20 does occur, it typically resolves very quickly,
21 requires very little treatment, if any.

22 If it was the mesh that was accounting for it,
23 I'm convinced that it would not be transient and it
24 would be in a much higher percentage or potentially
25 all patients.

1 BY MS. O'DELL:

2 Q What literature are you relying on to say
3 that, sir?

4 A I'm relying on what I believe to be the case,
5 based on my clinical experience.

6 Q Dr. Schwartz, the notebook that's in front of
7 you, are those the articles that you relied on in
8 rendering the opinions in your report?

9 A Select ones, yes.

10 MS. O'DELL: I don't have anything further.

11 MR. KOOPMANN: Okay.

12 RECROSS EXAMINATION

13 BY MR. KOOPMANN:

14 Q Dr. Schwartz, you've brought a lot of
15 materials here today with you; is that right?

16 A Yes.

17 Q Okay. And the materials you've brought with
18 you here today are all things that you've reviewed in
19 forming your opinions and relied on in forming your
20 opinions in this case?

21 MS. O'DELL: Object to the form.

22 BY MR. KOOPMANN:

23 Q And counsel hasn't marked all of those as
24 exhibits; is that right?

25 A Yes.

1 Q Okay?

2 MS. O'DELL: I've got about two minutes left.

3 I'll mark them, if that's an issue.

4 I'm going to mark as exhibit -- what was the
5 last one you left off?

6 (Exhibit 25 marked for identification.)

7 MS. O'DELL: I'm marking that binder as 25.

8 FURTHER REDIRECT EXAMINATION

9 BY MS. O'DELL:

10 Q What's that, Dr. Schwartz?

11 A Which one is this?

12 Q Twenty-five. I've just marked it and handed
13 it to you.

14 A What's it called?

15 Q What is contained in it?

16 A The TVT-O literature and document set. It's
17 mostly IFUs and patient brochures.

18 Q Okay. And let me ask you to identify what
19 I've marked as Exhibit 26.

20 (Exhibit 26 marked for identification.)

21 BY MS. O'DELL:

22 Q What's the title of that notebook, sir?

23 A This is TVT Literature and Document Set.

24 Q Okay. And if you'll be so kind as to hand it
25 back to me?

1 Is this binder I've marked as Exhibit 26 the
2 TVT literature and document starter set?

3 A Yes.

4 Q And this was provided to you by Ethicon
5 counsel?

6 A Yes.

7 MS. O'DELL: I don't have anything further.

8 FURTHER RECROSS EXAMINATION

9 BY MR. KOOPMANN:

10 Q Okay. Doctor, there is an additional document
11 that was part of your file that counsel didn't mark.

12 Can you tell me what that document is labeled
13 as?

14 A The Device Labeling Guide.

15 Q Okay.

16 A From the FDA.

17 MR. KOOPMANN: Would you mark that as Exhibit
18 27? We'll mark that as Deposition Exhibit 27.

19 (Exhibit 27 marked for identification.)

20 FURTHER REDIRECT EXAMINATION

21 BY MS. O'DELL:

22 Q Have you ever, sir, read that outside -- read
23 Exhibit 27 outside of the context of litigation?

24 A No.

25 Q Have you read it inside the context of

1 litigation?

2 A I have reviewed it.

3 Q Is that a fancy way of saying you may have
4 skimmed it?

5 A Yes.

6 Q Okay.

7 MS. O'DELL: I have nothing further.

8 FURTHER RECROSS EXAMINATION

9 BY MR. KOOPMANN:

10 Q Did you read the Warnings section and Adverse
11 Reaction section of Exhibit 27?

12 A Yes.

13 Q Is that one piece of information that you've
14 considered in forming your opinions about the adequacy
15 of the warnings in the TVT-O IFU?

16 A Yes.

17 MS. O'DELL: Object to the form.

18 MR. KOOPMANN: Those are all of the questions
19 I have.

20 MS. O'DELL: Nothing further.

21 (Deposition concluded at 1:17 p.m.)

22

23

24

25

CERTIFICATE OF OATH

STATE OF FLORIDA)

COUNTY OF COLLIER)

I, Elizabeth M. Brooks, Notary Public, State
of Florida, do hereby certify that, BRIAN SCHWARTZ,
M.D., personally appeared before me on the 25th day of
March, 2016, and was duly sworn.

Signed this 29th day of March, 2016.

Elizabeth M. Brooks

Notary Public

State of Florida

My Commission No. FF 014169

Expires: June 27, 2017

1 CERTIFICATE OF REPORTER

2 STATE OF FLORIDA

3 COUNTY OF COLLIER

4 I, Elizabeth M. Brooks, Registered

5 Professional Reporter, Florida Professional Reporter, do

6 hereby certify that I was authorized to and did

7 stenographically report the deposition of BRIAN

8 SCHWARTZ, M.D.; that a review of the transcript was not

9 requested, and that the foregoing transcript is a true

10 record of my stenographic notes.

11 I FURTHER CERTIFY that I am not a relative,

12 employee or attorney, or counsel of any of the parties,

13 nor am I a relative or employee of any of the parties'

14 attorney or counsel connected with the action, nor am I

15 financially interested in the action.

16 DATED this 29th day of March, 2016, at Naples,

17 Collier County, Florida.

18

19

Elizabeth M. Brooks

20 Registered Professional Reporter

Florida Professional Reporter

21

22

23

24

25